

Weston Solutions, Inc. 6779 Engle Road, Suite I Middleburg Heights, OH 44130-7952 440-202-2806 • Fax 440-243-7381 www.westonsolutions.com

April 18, 2014

Mr. Joe Fredle On-Scene Coordinator Emergency Response Branch U.S. Environmental Protection Agency Region V 25089 Center Ridge Road Westlake, OH 44145

**Subject:** ER-Bedford Anodizing Tanks and Vats

Macedonia, Summit County, Ohio

**Technical Direction Document No.: S05-000-1308-003** 

**Document Control No.: 2233-2A-BIZR** 

**WESTON START Contract No.: EP-S5-06-04** 

Work Order No: 20405.012.001.2233.00

Dear Mr. Fredle:

The Weston Solutions, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START) prepared this letter report in accordance with the requirements of Technical Direction Document (TDD) No. S05-000-1308-003 assigned by United States Environmental Protection Agency (EPA) to START. The EPA tasked START to perform the following activities at the Site:

- Inventory of containerized materials;
- pH field screening of materials stored in open tanks, vats, and drums;
- Installation of temporary monitoring wells to determine the horizontal extent of subsurface alkali liquid contamination;
- pH field screening of water samples collected from the temporary monitoring wells; and
- Documentation of Site conditions and activities.

This letter report provides a Site description; Site background; and summarizes the removal assessment activities conducted at the Site from August 21, 2013 to December 13, 2013.

#### **SITE DESCRIPTION**

The Site is located at 7860 Empire Parkway, Macedonia, Summit County, Ohio (**Attachment A, Figure 1**). The Site coordinates are 41°17"35' North latitude and 81°30"10' West longitude. The Site encompasses approximately 21 acres and contains one large manufacturing building and one covered equipment storage pad (**Attachment A, Figure 2**). These two structures occupy approximately 5 acres of the Site property. For the purposes of this removal assessment, the site

2233-2A-BIZR

- 2 - Bedford Anodizing Site Assessment April 18, 2014

building was divided into grids using the existing roof skylights as a layout. The grid layout consisted of letters (A through H) running west to east along the north edge of the building and numbers (1 through 11) running north to south along the western edge of the building (Attachment A, Figure 3). The building is in a state of deterioration. Presently, the roof is leaking and has partially collapsed in several locations. Precipitation from the leaking roof is accumulating on the floor into some of the anodizing vats. Electrical and gas services have been disconnected from the property. The Site is located in an industrial park, which is surrounded by wetlands and forested areas. The Site is bounded to the north, west, and south by forested areas and to the east by an electrical power company easement. The Site has a partial perimeter fence, but access is unrestricted in several locations. A drainage ditch flows north to south along the eastern Site perimeter. An abandoned railroad spur is located within this drainage ditch. South of the site building, the drainage ditch turns to the west and flows east to west into the adjacent forested property, where it eventually joins with an unnamed creek.

#### **BACKGROUND**

The Bedford Anodizing Company formally operated as an aluminum anodizing facility until operations ceased in June, 2013. The company originally began operations in Bedford, Ohio in 1978 and operated at this Bedford, Ohio location until it ceased operations at some time in 1990.

Early March, 2011, the Ohio Environmental Protection Agency (OEPA) responded to a complaint of released wastewater, containing aluminum hydroxide, overflowing from a blocked sanitary sewer into the drainage ditch on the eastern Site perimeter. OEPA issued a Notice of Violation (NOV) on March 18, 2011 and instructed the Site owner to remove sediment from the impacted areas. Due to no subsequent corrective actions by the Site owner to perform the NOV required cleanup activities, the OEPA requested the assistance of EPA. In April, 2011, EPA conducted some interim removal action activities at the Site, which focused on the removal of the aluminum hydroxide-impacted sediment from the drainage ditch on the Site and the unnamed creek on the adjacent forested property. Removal action activities included: excavation of impacted sediment; sediment solidification and staging; and offsite waste disposal.

Prior to the cessation of facility operations in June, 2013, the OEPA responded to another release of wastewater from the facility entering the drainage ditch on the eastern Site perimeter. OEPA observed precipitation leaking through the roof at various locations, mixing with spilled material on the floor, and flowing outside of the building through openings between the eastern building wall and the floor. OEPA instructed the Site owner to install sumps in the drainage ditch, between the eastern wall of the building and the railroad tracks to determine if site-related contaminants are migrating away from the building into the adjacent drainage ditch. Over time, a dark brown liquid was observed accumulating at the bottom of some of the sumps. Field screening of the liquid within the sumps indicated pH detections up to 13 standard units (SU).

- 3 - Bedford Anodizing Site Assessment April 18, 2014

#### REMOVAL ASSESSMENT ACTIVITIES

On August 21, 2013, EPA, START, and EPA's Emergency and Rapid Response Services (ERRS) contractor performed an initial walkthrough of the Site. START conducted an inventory and pH field screening of materials stored in tanks, vats, totes, drums, and small containers onsite. A detailed summary of the container inventory and pH field screening results is presented in **Attachment B, Table 1**. Label information and generator knowledge were used to identify the containerized materials during the inventory. A photographic log of Site conditions and activities conducted during the removal assessment is presented in **Attachment C**.

During the walkthrough and container inventory, START conducted real-time air monitoring using a MultiRAE Plus multi-gas monitor and gamma radiation screening using a Ludlum Model 19 (Micro-R) gamma radiation meter. Monitoring results did not exceed background levels throughout the Site during removal assessment activities.

One main anodizing line was identified during the removal assessment, located along the eastern edge of the site building in grids G3-G6 and H3-H6. This anodizing line consists of 30 similarly sized vats containing acidic solutions, alkali solutions, dyes, solid alkali waste, and rinse solutions. A wastewater treatment system, consisting of 21 tanks, is located along the northern edge of the site building in grids D1-D2 and E1-E2. In addition to the main anodizing line and wastewater treatment area, 57 additional open vats, 35 tanks, and 210 drums are located throughout the site building and on the covered equipment storage pad. During the walkthrough and inventory, START observed portions of the roof to be leaking and partially collapsed over the main anodizing line and evidence of precipitation entering the open vats, possibly causing them to overflow onto the floor.

START conducted pH field screening of the contents in open and accessible tanks, vats, and drums on the Site. Results of the pH field screening summarized in Table 1 indicated that the contents of 11 vats exhibited pH results of 0-2 SU; and the contents of 2 tanks, 9 vats, 5 drums, and 1 area of spilled material on the floor exhibited pH results of 12.5-14 SU. Pursuant to 40 *Code of Federal Regulations* (CFR) 261.22, these materials are considered to be hazardous based on the Resource Conservation and Recovery Act (RCRA) characteristic of corrosivity, defined as: "a solid waste exhibits the characteristic of corrosivity if a representative sample...is aqueous and has a pH less than or equal to 2 or greater than or equal to 12.5..."

Although evidence of trespassing onto the Site was not documented during the site visit, access onto the Site and into the buildings is unrestricted. There is limited fencing around the Site and openings into the building could allow for access and potential exposure to hazardous substances stored on the Site.

On September 26, 2013, START completed 14 soil borings (which were subsequently converted into temporary monitoring wells) at the Site to determine the horizontal extent of alkali liquid contamination along the eastern edge of the building (**Attachment A, Figure 4**). Two soil borings were completed within the building, one at the north end of the main anodizing line (SB-1) and one at the south end of the main anodizing line (SB-2). Five soil borings were completed E:\WO\START3\2233\46278LRPT.DOC 2233-2A-BIZR

- 4 - Bedford Anodizing Site Assessment April 18, 2014

in the drainage ditch, between the eastern wall of the building and the railroad tracks (SB-3, SB-4, SB-12, SB-13, and SB-14). Finally, seven soil borings were completed in the drainage ditch, east of the railroad tracks (SB-5, SB-6, SB-7, SB-8, SB-9, SB-10, and SB-11). START logged the soil cores to determine the depth of fill material over native soil and to identify the uppermost water bearing unit in which to set the temporary monitoring wells. Temporary monitoring wells were installed at all the boring locations with a screened interval of 3-8 feet below ground surface (bgs).

START conducted pH field screening of the soil cores at 2-foot intervals using pH paper. Results of the pH field screening indicated the 0-2 foot interval at boring locations SB-1, SB-2, and SB-4 exhibited pH results of 11 SU. The 2-4 foot interval at boring location SB-1 exhibited a pH result of 10 SU. The 4-6 foot interval of boring location SB-1 exhibited a pH result of 7 SU. The 0-2 foot interval of boring location SB-5 exhibited a pH result of 9 SU. All other pH field screening results were 6 SU.

On October 2, 2013, START collected liquid samples from the bottom of each of the temporary monitoring wells using a peristaltic pump and disposable tubing. START conducted pH field screening of the liquid samples using a pH meter. Results of the field screening indicated that ground water pH readings were highest in MW-1 & MW-2 (9.41 and 9.42 respectively), which were located in the building. The ground water pH readings trended toward neutral (7.16 - 8.15) further east from the building.

On October 23 and October 25, 2013 START returned to site after ERRS completed removal activities to update the container inventory and the estimated volumes of the bulk liquid and bulk solid materials stored at the Site. A detailed summary of the updated container inventory and ERRS final field screening results in **Attachment B**, **Table 2**. No volumetric changes were noted at this time.

On December 13, 2013, START, EPA and OEPA representatives returned to the Site after OEPA had observed that the contents of some of the vats appeared to have been emptied and/or possibly transferred to other vats. Prior to this site visit OEPA had also noted that several of the vats had been moved for possible sale by the owner of the property. START and EPA took volumetric measurements, pH readings of all the vats and tanks in the building's interior (Attachment B, Table 3). A comparison of the volumetric measurements and pH readings with those taken in October 2013 indicated changes in either the volumetric measurements and/or pH readings in a number of the vats on site. Overall, START estimates that ~26,117 gallons are unaccounted for and may have been released to the environment prior to the December 13, 2013 site visit. START and EPA marked the vat/tank areas with caution tape and OEPA posted placards informing the owner that the vats and their contents were to remain undisturbed unless they received approval from OEPA.

This letter report serves as the final deliverable for this TDD. START does not anticipate any further activities under this TDD. If you have any questions or comments regarding the report or require additional copies, please contact me at (440) 202-2806.



#### Bedford Anodizing Site Assessment April 18, 2014

Sincerely,

- 5 -

WESTON SOLUTIONS, INC.

IMA. Blie

Michael S. Blair, C.P.G.

Frank L. Beodray

JAMIL L. Bealmy

WESTON START Project Manager

Attachments:

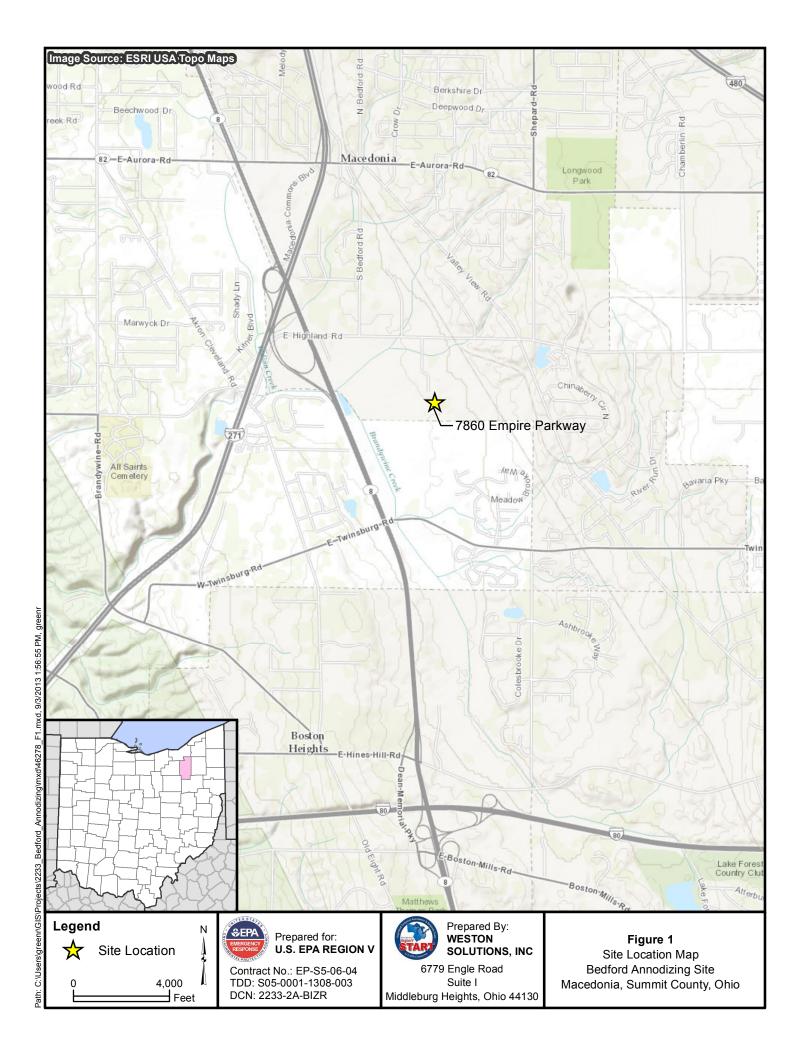
A - Figures

B-Tables

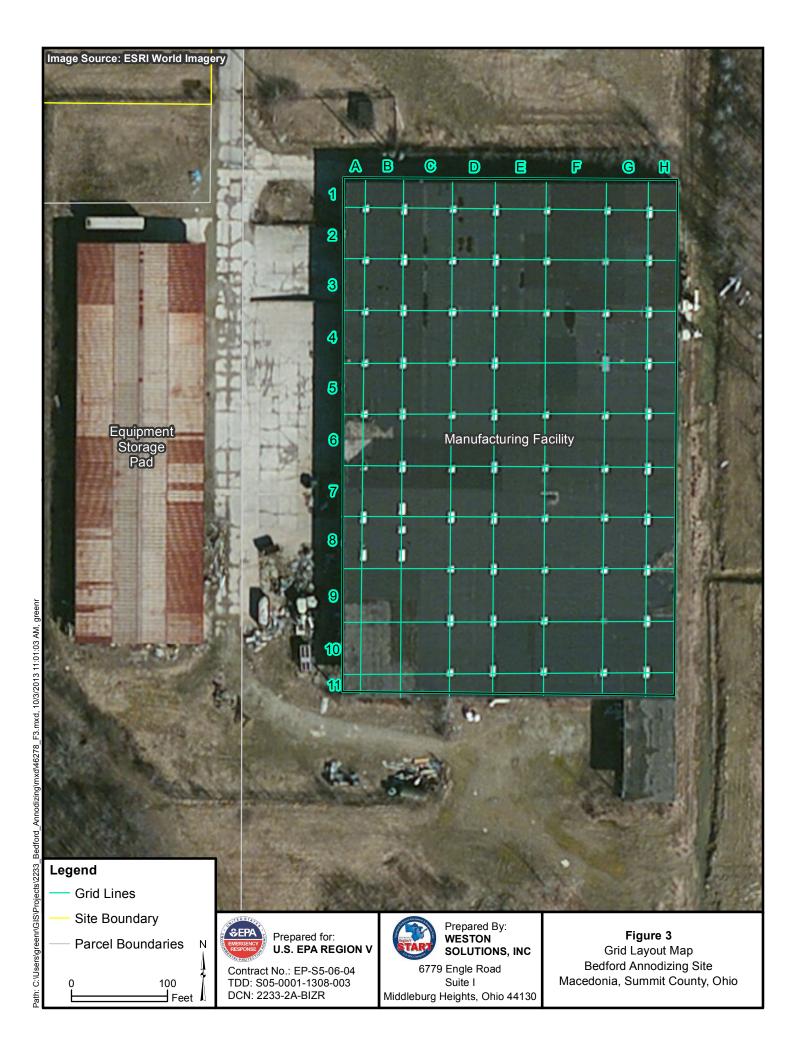
C – Photographic Documentation

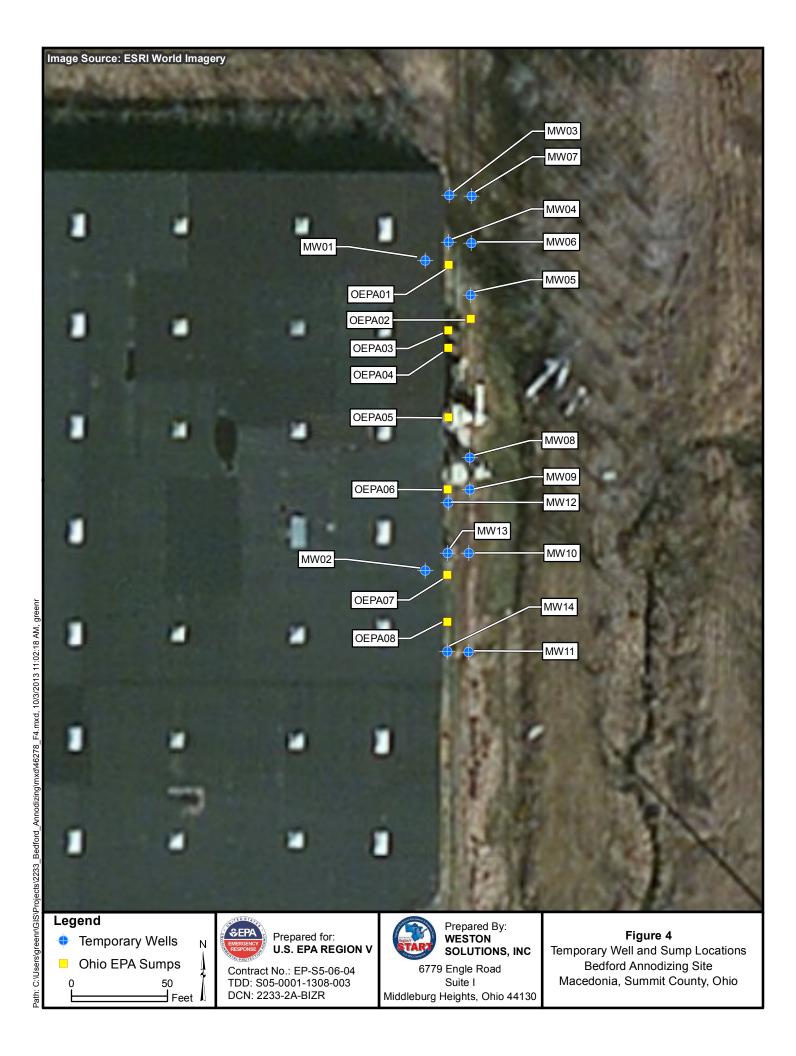
cc: WESTON START DCN file

## ATTACHMENT A FIGURES









## ATTACHMENT B TABLES

	Drum, Tank or Vat Designation	Container	Number of	Total Volume of Container	Total Volume of Container	Solid or Liquid or		Volume of Container	Volume of Container Contents	pH Screening	
Building Grid Area	Number	Material	Containers	(ft³)	(gallons)	Both	Container Description	Contents (ft³)	(gallons)	Reading	Comments
	-	various	1	-	-	-	Crate of various small containers	-	-	-	< pint size, some have labels
A1-2 and B1-2, second	-	Poly	1	7.4	55	-	Drum C If it a it	-	-	-	empty
floor	-	Glass	1	0.1	1	Liquid	Sulfuric Acid	0.1	1	-	closed
	-	Glass	1	0.1	1	Liquid	Phosphoric Acid	0.1	1	-	closed
A1, B1, and C1,	V88	Steel	1	128	957	Solid	Vat	64	479	11	50 % full of solid crystaline alkali waste
Maintenance Area	-		60-80	-	-	-	light bulbs - flourescent and incandescent	-	-	-	
	-	various	10	-	-	-	various small containers	-	-	-	oils, lubricants, paint thinner
	-	Poly	1	0.7	5	Liquid	Open Oil Pan	0.1	1	-	approximately 1 gallon of used oil
	T01	Steel	1	311	2326	Liquid	Tank	-	-	-	unknown amount
	T02	Steel	1	269	2012	Both	Tank	231	1728	6.5	liquid 1' down with solid/sludge below
	T03	Steel	1	280	2094	Solid	Tank	245	1833	5	white crystaline alkali waste
	T04	Steel	1	96	718	Solid	Tank	80	598	5	white crystaline alkali waste
	T05	Poly	1	98	733	Both	Tank	79	591	9.5	liquid 1' down with solid/sludge below
	T06	Steel	1	308	2304	Liquid	Tank	231	1728	6	liquid 2' down
	T07	Steel	1	308	2304	Liquid	Tank	269	2012	7	liquid 1' down
	T08	Steel	1	269	2012	-	Tank	-	-	-	empty
	T09	Steel	1	88	658	-	Tank	-	-	-	empty
D1, E1 and D2, E2,	T10	Steel	1	88	658	-	Tank	-	-	-	empty
Wastewater	T11	Steel	1	34	254	Solid	Tank	24	180	9	white crystaline alkali waste 1' down
Treatment Area	T12	Steel	1	84	628	Solid	Tank	84	628	11.5	white crystaline alkali waste to top
	T13	Poly	1	198	1481	Solid	Tank	113	845	-	white crystaline alkali waste 3' down
	T14	Steel	1	-	250	Liquid	Tank		250	-	Appears Full
	T15	Poly	1	20	150	Liquid	Tank	17	127	6	liquid 0.5 ' down
	T16	Poly	1	-	2500	-	Tank	-	-	-	Corrosive Mixed Acids Labels - unknown amount
	T17	Steel	1	170	1272	-	Tank	-	-	-	Sludge Thickening Label - unknown amount
	T18	Poly	1	-	-	-	Tank	-	-	-	empty - used by ERRS
	T19	Poly	1	-	220	Both	Tank	-	55	14	labelled sulfuric acid0.25 % full - liquid over solids
	T20	Poly	1	-	-	-	Tank	_	-	-	empty - used by ERRS
	T21	Poly	1	2280	17054	-	Tank	_	_	-	unknown contents and amount
	H01	Steel	1	20	150	Solid	Hopper	20	150	5.5	white crystaline waste to top
F2	H02	Steel	1	20	150	Solid	Hopper	20	150	6	white crystaline waste to top
	-	Poly	1	7.4	55	-	Drum	-	-	-	labelled Sodium Hydroxide Solution - empty
	-	Poly	2	7.4	55	-	Drum	-	_	-	labelled Total Etch 2050 - empty
	D02	Poly	3	7.4	55	Solid	Drum	22	165	11	no label - white crystaline waste
G3	D01	Poly	6	7.4	55	Liquid	Drum	44	330	10	no label - filled with unknown liquid
	D01	POLY	-	7.4	33	Liquiu	Spill Area	44	330	14	Crystallized material on floor
	H03	Steel	1	20	150	Solid		20	150	-	white crystaline waste to top
	HU3	Poly	1	7.4	55	Liquid	Hopper Drum	3.7	28	-	Corrosive label - half full of liquid
G4	-	Poly		0.7	5	Liquid	Small Container	0.5	4	-	no label - 75% full
	T22	Poly	1	44	330	Liquid	Tank	44	330	<del>-</del>	labelled sulfuric acid - 2 inches total liquid
F4	V01	Steel		88	658			- 44		-	Filled with Trash and Debris
	V01 T23		1	88	658	-	Vat Tank	-	-		
C.F.		Poly	1				-				sulfuric acid tote - empty
G5	T24	Poly	1	402	3007	Liquid	Tank	251	1877	-	liquid 3' down
		Poly	1	7.4	55	-	Drum	-		-	labelled Ammonia Solutions
	-	Fiber	2	0.1	5	-	Small Container	-	-	-	empty
	-	Poly	1	7.4	55	-	Drum	-	-	-	Filled with Trash and Debris
	-	Poly	1	7.4	55	Solid	Drum	-	-	11	White Crystaline Solid Waste Spilled on floor
G7 and H7	-	Poly	1	7.4	55	Both	Drum	5.5	41	-	solid with 2 inhes of liquid 75% full
	V03	Steel	1	567	4241	Liquid	Vat	473	3538	-	labelled Spent Acid - greenish liquid 1' from top
	V04	Steel	1	567	4241	Liquid	Vat	474	3546	0.5	labelled Spent Acid - greenish liquid 1' from top
	T27	Poly	1	-	3900	Liquid	Tank	-	3900	-	Full
G7 and F7	T28	Poly	1	346	2588	Liquid	Tank	173	1294	-	labelled Spent Acid - 50 % Full
G7	V02	Steel	1	675	5049	Both	Vat	338	2528	-	liquid on top of solid - liquid 3' from top
F7	T26	Poly	1	-	1700	Liquid	Tank	-	1700	-	Full
F/	T25	Poly	1	-	1700	Liquid	Tank	-	1700	-	Full

Building Grid Area	Drum, Tank or Vat Designation Number	Container Material	Number of Containers	Total Volume of Container (ft³)	Total Volume of Container (gallons)	Solid or Liquid or Both	Container Description	Volume of Container Contents (ft³)	Volume of Container Contents (gallons)	pH Screening Reading	Comments
	-	-	-	-	-	-	Trench Liquid	_	_	4.5	
	T29	Poly	1	13.4	100	Liquid	Tank	2	15	-	<25% full
	T30	Poly	1	88	658	Liquid	Tank	22	165	-	25 % full
	_	Steel	3	7.4	55	Liquid	Drum	22	165	-	labelled used oil
Н8	-	Steel	1	7.4	55	Liquid	Drum	7.4	55	-	empty
	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	labelled Nova Rinse
	-	Poly	2	7.4	55	Liquid	Drum	15	110	-	labelled Nitric Acid
	-	Poly	2	7.4	55	Liquid	Drum	15	110	-	no label - unkown contents
	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	labelled Sodium Hydroxide
	-	-	11	-	-	Solid	50 lb. bags	-	-	-	labelled Sulfamic Acid Crystals
	T31	Poly	1	-	-	-	Tank	-	-	-	empty - used by ERRS
	V05	Steel	1	675	5049	Solid	Vat	563	4211	-	solid white Alkali Waste 1' from top
	_	Poly	2	7.4	55	Liquid	Drum	15	110	-	labelled Naphtenic Oil
	-	Poly	1	2.7	20	Liquid	Drum	2.7	20	-	labelled Ammonium Hydroxide
G8	_	Poly	1	0.1	5	Liquid	Small Container	0.1	5	-	labelled Polyacrylimide Emulsion
	_	Poly	1	0.1	5	Liquid	Small Container	-	-	-	labelled Polyacrylimide Emulsion - empty
	-	Poly	1	2.7	20	Liquid	Drum	2.7	20	-	labelled Ammonia
	-	Stainless Steel	1	2.7	20	Liquid	Drum	2.7	20	-	labelled Nitric Acid
	-	Fiber	1	2.7	20	Solid	Drum	2.7	20	-	labelled Inorganic Phosphate
	_	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	labelled Anodal MS
	-	Poly	1	0.1	5	Liquid	Small Container	0.1	5	-	no label
	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	no label
	-	Fiber	1	7.4	55	Solid	Drum	7.4	55	-	no label
	-	various	60	7.4	- 33	30110	various small containers	7.4	- 55	-	lab chemicals up to 5 gallon containers
	-	Poly	1	7.4	55	Liquid	Drum	3.7	28	-	no label
G9	-	Fiber	1	4	30	Solid	Drum	3.7	30	-	labelled Cation Exchange Resin
	-	Poly	3	7.4	55	Liquid	Drum	22	165	-	labelled SC225 Detergent
	-			0.1		Solid		0.2	105		labelled 5C225 Detergent
	-	Poly	1	0.1	5	Solid	Overpack	0.2	5	-	
	-	Poly	1	0.1	5		Overpack		5	-	labelled Nickel Acetate
H11	-	Poly				Solid	Overpack	0.1		-	Red Powder
	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	labelled Oakite Aluminum Cleaner
	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	labelled Rust Stripper Sodium Hydroxide
Outside behind H11	T32	Poly	1	-	-	-	Tank	-	-	-	empty - used by ERRS
	T33	Poly	1	-	50	Solid	Tank	-	50	-	goldish brown - Full
	V06	Steel	1	32	239	Liquid	Vat	8	60	-	labelled Passivate Tank - elevated VOCs, 25% full
	V49	Steel	1	-	-	-	Vat	-	-	-	Filled with Trash and Debris
F5	V50	Steel	1	-	-	-	Vat	-	-	-	Filled with Trash and Debris
	T45	Poly	1	-		-	Tank	-	-	-	Filled with Trash and Debris
	-	Poly	1	7.4	55	-	Drum	-	-	-	Filled with Trash and Debris
	-	Poly	2	7.4	55	Liquid	Drum	15	110	-	labelled Anodal ES1
F6	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	labelled Aqua Ammonia
	-	Poly	1	4	30	Liquid	Drum	2	15	-	labelled Acetic glacial
	-	Fiber	1	7.4	55	-	Drum	-	-	-	Filled with Trash and Debris
	-	-	1	-	-	-	Cylinder	-	-	-	unknown contents
F7	-	Poly	3	7.4	55	-	Drum	-	-	-	Filled with Trash and Debris
	-	various	10	-	-	-	various small containers	-		-	cleaning products
	-	Poly	4	7.4	55	Solid	Drum	30	220	-	solid white crystalline waste
F7 and E7	T34	Poly	1	137	1025	Liquid	Tank	98	733	-	liquid 2 from top
	T35	Poly	1	137	1025	Liquid	Tank	108	808	-	liquid 1.5 from top
	T36	Poly	1	402	3007	Liquid	Tank	351	2625	-	labelled Spent Acid - liquid 1' from top
	T37	Steel	1	402	3007	Liquid	Tank	302	2259	-	labelled Spent Acid - liquid 2' from top
	V07	Steel	1	648	4847	Liquid	Vat	540	4039	-	liquid 1' from top
E7	V08	Steel	1	180	1346	Liquid	Vat	113	845	13	liquid 1.5' from top
	V09	Steel	1	234	1750	Liquid	Vat	156	1167	11	liquid 2' from top
	D13	Poly	3	7.4	55	Both	Drum	22	165	11	no labels - solids with liquids on top
	T38	Poly	1	269	2012	Liquid	Tank	192	1436	-	labelled Spent Alkali - liquid 2' from top
D7 and E7	V10	Poly	1	675	5049	Both	Vat	506	3785	13.5	liquid 1.5' from top, solid 2' below liquid
D/ allu E/	V11	Steel	1	525	3927	Liquid	Vat	438	3276	4	liquid 1' from top

Building Grid Area	Drum, Tank or Vat Designation Number	Container Material	Number of Containers	Total Volume of Container (ft³)	Total Volume of Container (gallons)	Solid or Liquid or Both	Container Description	Volume of Container Contents (ft³)	Volume of Container Contents (gallons)	pH Screening Reading	Comments
D7	T39	Poly	1	170	1272	Both	Tank	127	950	-	labelled Spent Alkali - liquid 1.5' from top
	T40	Poly	1	192	1436	Both	Tank	135	1010	11	labelled Spent Alkali - liquid 1.5' from top
	V12	Steel	1	614	4593	Liquid	Vat	520	3890	12.5	liquid 1' from top
	D11	Poly	47	7.4	55	Solid	Drum	221	2585	13.5	solid white crystalline waste
F8	D12	-	-	-	-	-	Drum	-	-	11	solid white crystalline waste
	-	Steel	2	7.4	55	-	Drum	-	-	-	empty
	V13	Steel	1	96	718	Solid	Vat	72	539	10.5	labelled Treated Alkali - solids 1' from top
	V14	Steel	1	96	718	Solid	Vat	72	539	10	labelled Treated Alkali - solids 1' from top
	V15	Steel	1	128	957	Solid	Vat	96	718	5.5	labelled Treated Alkali - solids 1' from top
E8	T41	Poly	1	13	97	-	Tank	-	-	-	empty
	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	no label
	-	Poly	1	4	30	Liquid	Drum	4	30	-	labelled Acetic Acid glacial
	V16	Steel	1	160	1197	Solid	Vat	120	898	5.5	white crystaline solid waste 1' from top
F9	V17	Steel	1	96	718	Solid	Vat	72	539	6	white crystaline solid waste 1' from top
	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	labelled Anodal
F10	D14	Poly	12	7.4	55	Solid	Drum	88.8	660	13	solid white crystalline waste
F11	D15	-	-	-	-	-	Drum	-	-	12	solid white crystalline waste
111	-	Fiber	1	0.1	5	Solid	Drum	0.1	5	-	yellow powder
	-	Poly	1	7.4	55	-	Drum	-	-	-	empty
	-	Poly	9	0.6	5	Liquid	Small Container	6	45	-	Sulfuric Acid for Color Bath label
	-	various	16	0.6	5	Liquid	Small Container	-		-	3 Aluminum Cleaner, 4 Lubricants, 2 Roof Coating
	-	Steel	1	7.4	55	-	Drum	-		-	Filled with Trash and Debris
C10, D10, and E10	-	various	3	-	-	-	Small Container	-	-	-	
	D03	Poly	72	7.4	55	Solid	Drum	532	3960	13	solid white crystalline waste
	D04	Poly	-	-	-	-	Drum	-	-	12.5	solid white crystalline waste
	D05	Poly	-	-	-	-	Drum	-		11	solid white crystalline waste
	D06	Poly	-	-	-	-	Drum	-	-	11	solid white crystalline waste
	D07	Poly	-	-	-	-	Drum	-	-	2.5	solid white crystalline waste
	D08	Poly	-	-	-	-	Drum	-	-	13	solid white crystalline waste
C8, D8, E8 and C9, D9,	D09	Poly	-	-	-	-	Drum	-	-	10.5	solid white crystalline waste
E9 Metal Fab Shop	D10	Poly	-	-	-	-	Drum	-		10.5	solid white crystalline waste
	-	-	1	-	-	-	Cylinder	-		-	refridgerant
	-	Steel	1	7.4	55	-	Drum	-	-	-	Filled with Trash and Debris
A8, B8, and C8	-	Poly	1	7.4	55	-	Drum	-	-	-	Filled with Trash and Debris
	-	Steel	6	0.4	3	Liquid	Small Container	2.4	18	-	lubricant
	-	Poly	1	0.6	5	Solid	Small Container	0.6	5	-	buffing compound
	-	Steel	2	7.4	55	Solid	Drum	15	110	-	used buffing compound
	-	Steel	8	0.6	5	-	Small Container	-	-	-	empty
	-	Poly	1	7.4	55	Solid	Drum	7.4	55	-	used buffing compound
A6, B6, C6 and A7, B7,	-	Poly	1	7.4	55	Solid	Drum	7.4	55	-	used buffing compound
C7	-	Poly	2	7.4	55	-	Drum	-	-	-	Filled with Trash and Debris
	-	Fiber	2	7.4	55	-	Drum	-	-	-	Filled with Trash and Debris
	-	Poly	6	7.4	55	Solid	Drum	44	330	-	solid white crystalline waste
	V18	Steel	1	96	718	Solid	Vat	72	539	5.5	white crystaline solid waste 1' from top
	-	-	3	-	-	-	Cylinder	-	-	-	Argon Gas
	-	-	1	-	-	-	Cylinder	-	-	-	Oxygen Gas
C4	-	Steel	50	-	-	Liquid	Small Container	-	-	-	various aerosols and paints

									Volume of		
	Drum, Tank or Vat			Total Volume	Total Volume			Volume of	Container		
	Designation	Container	Number of	of Container	of Container	Solid or Liquid or		Container	Contents	pH Screening	
Building Grid Area	Number	Material	Containers	(ft³)	(gallons)	Both	Container Description	Contents (ft³)	(gallons)	Reading	Comments
	-	-	1	-	-	-	Cylinder	-	-		Helium Gas
	-	-	1	1.3	10	Liquid	Small Container	1.3	10	-	Parts Washing Solvent
	-	various	20	-	-	-	Small Container	-	-	-	various cleaners
	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	labelled Anodal
	-	Poly	2	7.4	55	Liquid	Drum	15	110	-	labelled Aluminum Etch
	V19	Steel	1	840	6283	Liquid	Vat	-	-	-	ERRS was pumping liquid into vat
	V20	Steel	1	840	6283	Both	Vat	720	5386	13.5	liquid 1' from top - solids 3' from top
	V21	Steel	1	630	4712	Both	Vat	450	3366	14	liquid 3' from top, solid 2' below liquid
	V22	Steel	1	630	4712	Solid	Vat	630	4712	11	white crystaline alkali solid waste
	V23	Steel	1	630	4712	Solid	Vat	630	4712	11	white crystaline alkali solid waste
	V24	Steel	1	630	4712	Both	Vat	540	4039		solid 1' from top of liquid
	V25	Steel	1	630	4712	Liquid	Vat	540	4039	13.5	liquid 1' from top
	V26	Steel	1	630	4712	Liquid	Vat	540	4039	13	liquid 1' from top
	V27	Steel	1	525	3927	Liquid	Vat	450	3366	12.5	liquid 1' from top
G3 - G8 and H3 - H8	V28	Steel	1	735	5498	Liquid	Vat	630	4712	12	liquid 1' from top
03 - 08 and 113 - 118	V29	Steel	1	735	5498	Liquid	Vat	630	4712	11	liquid 1' from top
	V30	Steel	1	840	6283	Liquid	Vat	480	3590		Vat was leaking onto floor liquid 3' from top
	V31	Steel	1	840	6283	Liquid	Vat	480	3590	1.5	liquid 3' from top
	V32	Steel	1	840	6283	Liquid	Vat	720	5386	1.5	liquid 1' from top
	V33	Steel	1	840	6283	Liquid	Vat	480	3590	1.5	liquid 3' from top
	V34	Steel	1	100	748	Liquid	Vat	80	598	1.5	liquid 1' from top
	V35	Steel	1	840	6283	Liquid	Vat	660	4937	1.5	liquid 1.5' from top
	V36	Steel	1	735	5498	Liquid	Vat	630	4712	1.5	liquid 1' from top
	V37	Steel	1	735	5498	-	Vat	-	-	-	nearly empty
	V38	Steel	1	438	3276	Liquid	Vat	375	2805	4	liquid 1' from top
	V39	Steel	1	630	4712	-	Vat	-	-		nearly empty
	V40	Steel	1	735	5498	Liquid	Vat	420	3142	3.5	liquid 3' from top
	V41	Steel	1	735	5498	-	Vat	-	-	-	nearly empty
	V42	Steel	1	735	5498	Liquid	Vat	525	3927	5.5	liquid 2' from top
	V43	Steel	1	630	4712	Liquid	Vat	540	4039	3.5	liquid 1' from top
	V44	Steel	1	630	4712	Liquid	Vat	540	4039	10	liquid 1' from top
A9, A10, A11 and B9,	V45	Steel	1	840	6283	Liquid	Vat	720	5386	2	liquid 1' from top
B10, B11	V46	Steel	1	735	5498	Liquid	Vat	630	4712	2	liquid 1' from top
	V47	Steel	1	735	5498	Liquid	Vat	630	4712	1.5	liquid 1' from top
Outside B11 South	V48	Steel	1	840	6283	-	Vat	-	-	-	nearly empty

	Drum, Tank or Vat			Total Volume	Total Volume			Volume of	Volume of Container		
	Designation	Container	Number of	of Container	of Container	Solid or Liquid or		Container	Contents	pH Screening	
Building Grid Area	Number	Material	Containers	(ft³)	(gallons)	Both	Container Description	Contents (ft³)	(gallons)	Reading	Comments
	T42	Fiberglass	1	-	-	-	Tank	-	1-1	-	air stripper - empty
	T43	Fiberglass	1	-	-	-	Tank	-	-	-	air stripper - empty
	-	Steel	67	0.6	5	Liquid	Small Container	-	-	-	various levels of contents - heavy duty lubricant
	-	Steel	12	0.1	1	Liquid	Small Container	-	-	-	various levels of contents - paint
	T44	Fiberglass	1	1571	11751	-	Tank	-	-	-	contents unknown
	-	Steel	1	616	4607	Solid	Rolloff	616	4607	5	white crystaline alkali solid waste
	-	Poly	2	7.4	55	Liquid	Drum	-	-	-	appears to be rainwater collected
	T46	Poly	1	28	209	Liquid	Tank	28	209	6.5	Caustic Soda Label
	T47	Poly	1	28	209	-	Tank	-	-	-	Trash and Debris
	T48	Poly	1	28	209	-	Tank	-	-	-	Trash and Debris
	T49	Poly	1	28	209	-	Tank	-	-	-	Trash and Debris
	T50	Poly	1	15	112	-	Tank	-	-	-	empty
	T51	Poly	1	-	150	-	Tank	-	-	-	empty
	T52	Poly	1	63	471	-	Tank	-	-	-	empty
	T53	Poly	1	154	1152	-	Tank	-	-	-	empty
	T54	Poly	1	154	1152	-	Tank	-	-	-	empty
	T55	Poly	1	38	284	-	Tank	-	-	-	empty
	T56	Poly	1	28	209	solid	Tank	-	-	13	3 inches of solid crystaline material
	V52	Steel	1	240	1795	Solid	Vat	192	1436	5	solid white Alkali Waste 1' from top
	V53	Steel	1	160	1197	-	Vat	-	-	-	Filled with Trash and Debris
	V54	Steel	1	160	1197	Solid	Vat	120	898	5	solid white Alkali Waste 1' from top
	V55	Steel	1	128	957	Solid	Vat	96	718	5	solid white Alkali Waste 1' from top
	V56	Steel	1	385	2880	Solid	Vat	330	2468	5	Large Hopper - solid white Alkali Waste 1' from top
	V57	Steel	1	128	957	Solid	Vat	96	718	6	solid white Alkali Waste 1' from top
	V58	Steel	1	160	1197	-	Vat	-	-	-	Filled with Trash and Debris
	V59	Steel	1	120	898	-	Vat	-	-	-	empty
Outside West Canopy	V60	Steel	1	264	1975	Solid	Vat	216	1616	5	solid white Alkali Waste 1' from top
тана положения,	V61	Steel	1	154	1152	Solid	Vat	116	868	5	solid white Alkali Waste 1' from top
	V62	Steel	1	160	1197	Solid	Vat	120	898	5	solid white Alkali Waste 1' from top
	V63	Steel	1	160	1197	Solid	Vat	120	898	5	solid white Alkali Waste 1' from top
	V64	Steel	1	160	1197	Solid	Vat	120	898	5	solid white Alkali Waste 1' from top
	V65	Steel	1	100	748	-	Vat	-	-	-	Filled with Trash and Debris
	V66	Steel	1	330	2468	Solid	Vat	281	2102	5	solid white Alkali Waste 1' from top
	V67	Steel	1	120	898	-	Vat	-	-	-	empty
	V68	Steel	1	80	598	Solid	Vat	60	449	5	solid white Alkali Waste 1' from top
	V69	Steel	1	135	1010	Solid	Vat	101	755	7.5	solid white Alkali Waste 1' from top
	V70	Steel	1	210	1571	-	Vat	-	-	-	empty
	V71	Steel	1	12	90	Liquid	Vat	6	45	5	liquid 1.5' from top
	V72	Steel	1	-	-	-	Vat	-	-	-	empty
	V73	Steel	1	-	-	-	Vat	-	-	-	empty
	V74 V75	Steel	1	-	-	-	Vat	-	-	-	empty
		Steel	1	-	-	-	Vat	-	-	-	empty
	V76	Steel	1	-	-	-	Vat	-	-	-	empty
	V77	Steel	1	28	209	-	Vat	-	-	-	Filled with Trash and Debris
	V78 V79	Steel	1		-		Vat	-	-		Filled with Trash and Debris
	V79 V80	Steel Steel	1	-	-	-	Vat	-	-	-	Filled with Trash and Debris
	V80 V81	Steel	1	-		-	Vat Vat	-		-	empty Filled with Trash and Debris
				-	-	-		1 -	-	-	
	V82	Steel	1				Vat				Filled with Trash and Debris
	V83	Steel	1	-	-	-	Vat	-	-	-	Filled with Trash and Debris
	V84 V85	Steel	1		- 057		Vat				Filled with Trash and Debris
	V85 V86	Poly		128	957	Liquid -	Vat	16	120	5	Only 6" of liquid
	V86 V87	Steel	1	-	-		Vat	+	-	-	J-shaped - empty
	V8/	Steel	1	-	-	-	Vat	-	-	-	J-shaped - empty

#### Table 2- October 25, 2013

# Container Inventory and Field Screening Results Bedford Anodizing Tanks and Vats Site Macedonia, Summit County, Ohio

Building Grid Area	Drum, Tank or Vat Designation Number	Container Material	Number of Containers	Total Volume of Container (ft³)	Total Volume of Container (gallons)	Solid or Liquid or Both	Container Description	Volume of Container Contents (ft³)	Volume of Container Contents (gallons)	pH Screening Reading	Comments
	-	Various	1	-	-	-	Crate of various small containers	-	-	-	approximate pint size, some have labels
A1-2 and B1-2 (Second	-	Poly	1	7.4	55	-	Drum	-	-	-	empty
Floor)	-	Glass	1	0.1	1	Liquid	Glass jar	0.1	1	-	labelled Sulfuric Acid
FIOOI	-	Glass	1	0.1	1	Liquid	Glass jar	0.1	1	-	labelled Phosphoric Acid
	-	Steel	2	=	=	-	Cylinder	-	-	-	labelled Propane
	V88	Steel	1	128	957	Solid	Vat	64	479	11	50 % full of solid crystaline alkali waste
A1, B1, and C1 -C2	-	-	60-80	=	=	-	Light bulbs - flourescent and incandescent	-	-	-	
(Maintenance Area)	-	Various	10	-	-	-	Various small containers	-	-	-	oils, lubricants, paint thinners
	-	Poly	1	0.7		Liquid	Open oil pan	0.1	1	-	approximately 1 gallon of used oil
	T01	Steel	1	311	2326	Liquid	Tank	-	-	-	unknown amount / settling tank
	T02	Steel	1	269	2012	Both	Tank	231	1728	6.5	liquid 1' down with solid/sludge below / discharge tank
	T03	Steel	1	280	2094	Solid	Tank	245	1833	5	white crystaline alkali waste / clarifier tank
	T04	Steel	1	96	718	Solid	Tank	80	598	5	white crystaline alkali waste / polymer tank
	T05	Poly	1	98	733	Both	Tank	79	591	9.5	liquid 1' down with solid/sludge below / polymer tank
	T06	Steel	1	308	2304	Liquid	Tank	231	1728	6	liquid 2' down / neutralization tank
	T07	Steel	1	308	2304	Liquid	Tank	269	2012	7	liquid 1' down / neutralization tank
	T08	Steel	1	269	2012	-	Tank	-	-	-	empty / backup chromate treatment tank
	T09	Steel	1	88	658	-	Tank	-	-	-	empty / backup chromate treatment tank
	T10	Steel	1	88	658	-	Tank	-	-	-	empty / backup chromate treatment tank
D1 2 4 54 2						6 11 1		2.	400	_	
D1-2 and E1-2	T11	Steel	1	34	254	Solid	Tank	24	180	9	white crystaline alkali waste 1' down / backup chromate treatment tank
Wastewater Treatment	T12	Steel	1	84	628	Solid	Tank	84	628	11.5	white crystaline alkali waste to top / backup chromate treatment tank
Area)			1								
	T13	Poly	1	198	1481	Solid	Tank	113	845	-	white crystaline alkali waste 3' down / backup chromate treatment tank
	T14	Steel	1	-	250	Liquid	Tank		250	-	appears full / rinse water tank
	T15	Poly	1	20	150	Liquid	Tank	17	127	6	liquid 0.5 ' down / rinse water tank
	T16	Poly	1	-	2500	-	Tank	-	-	-	labelled Corrosive Mixed Acids - unknown amount
	T17	Steel	1	170	1272	-	Tank	-	_	-	labelled Sludge Thickening - unknown amount
	T18	Poly	1	-	-	_	Tank	-	-	-	empty - used by ERRS
	T19	Poly	1	-	220	Both	Tank	-	55	14	labelled Sulfuric Acid 0.25 % full - liquid over solids
	T20	Poly	1			<del> </del>	Tank	1			
	120	Poly	1	-	-	-	TATIK	-	-	-	empty - used by ERRS
	T21	Poly	1	2280	17054	-	Tank	-	-	-	unknown contents and amount - appears empty / water recycling tank - never used
	H01	Steel	1	20	150	Solid	Hopper	20	150	5.5	white crystaline waste to top
B4	H02	Steel	1	20	150	Solid	Hopper	20	150	6	white crystaline waste to top white crystaline waste to top
F2	-	Poly	1	7.4	55	- 30110	Drum	- 20	-	-	
FZ.	1	•	2	7.4	55	t t		1		l	empty - labelled Sodium Hydroxide Solution
	-	Poly				-	Drum	- 22	- 105	- 11	empty - labelled Total Etch 2050
	D02	Poly	3	7.4	55	Solid	Drum	22	165	11	no label - white crystaline waste
G3	D01	Poly	6	7.4	55	Liquid	Drum	44	330	10	no label - filled with unknown liquid
	-	-	-	-	-	-	Spill Area	-	-	14	crystallized material on floor
	H03	Steel	1	20	150	Solid	Hopper	20	150	-	white crystaline waste to top
	-	Poly	1	7.4	55	Liquid	Drum	3.7	28	-	labelled Corrosive - half full
G4	-	Poly	1	0.7	5	Liquid	Small Container	0.5	4	-	no label - 75% full
	T22	Poly	1	44	330	Liquid	Tank	44	330	-	labelled Sulfuric Acid - 2 inches total liquid
F4	V01	Steel	1	88	658	-	Vat	-	-	-	trash and debris
	T23	Poly	1	-	-	-	Tank	-	-	-	empty - labelled Sulfuric Acid
G5	T24	Poly	1	402	3007	Liquid	Tank	251	1877	-	no label - liquid 3' down / water holding tank / could contain some acid
U3	-	Poly	1	7.4	55	-	Drum	-	-	-	labelled Ammonia Solutions
	-	Fiber	2	0.1	5	-	Small Container	-	-	-	empty
	-	Poly	1	7.4	55	-	Drum	-	-	-	trash and debris
	-	Poly	1	7.4	55	Solid	Drum	-	-	11	white crystalline solid waste spilled on floor
	-	Poly	1	7.4	55	Both	Drum	5.5	41	-	solid with 2 inhes of liquid - 75% full
G7 and H7	V03	Steel	1	567	4241	Liquid	Vat	473	3538	-	labelled Spent Acid - greenish liquid 1' from top
	V04	Steel	1	567	4241	Liquid	Vat	474	3546	0.5	labelled Spent Acid - greenish liquid 1' from top
	T27	Poly	1	-	3900	Liquid	Tank	-	3900	-	full
	T28	Poly	1	346	2588	Liquid	Tank	173	1294	-	labelled Spent Acid - 50 % Full
G7 and F7	V02	Steel	1	675	5049	Both	Vat	338	2528	-	liquid on top of solid - liquid 3' from top / alkali rinse water
G7 G7	T26	Poly	1	-	1700	Liquid	Tank	-	1700	-	full
	T25	Poly	1	-	1700	Liquid	Tank	-	1700	-	full
F7	-	- Poly	-	-	-	- Liquiu	Trench Liquid	-	-	4.5	TWII
	T29	Poly	1	13.4	100	Liquid	Tank	2	15	4.5	<25% full
	T30			13.4	658	<del> </del>	Tank			l	25% full
		Poly	1			Liquid		22	165	-	
	-	Steel	3	7.4	55	Liquid	Drum	22	165	-	labelled Used Oil
	-	Steel	1	7.4	55	Liquid	Drum	7.4	55	-	empty
Н8	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	labelled Nova Rinse
	-	Poly	2	7.4	55	Liquid	Drum	15	110	-	labelled Nitric Acid
	-	Poly	2	7.4	55	Liquid	Drum	15	110	-	no label - unkown contents
	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	labelled Sodium Hydroxide
	-	-	11	=	=	Solid	50 lb. bags	-	-	-	labelled Sulfamic Acid Crystals

#### Table 2- October 25, 2013

# Container Inventory and Field Screening Results Bedford Anodizing Tanks and Vats Site Macedonia, Summit County, Ohio

Building Grid Area	Drum, Tank or Vat Designation Number	Container Material	Number of Containers	Total Volume of Container (ft³)	Total Volume of Container (gallons)	Solid or Liquid or Both	Container Description	Volume of Container Contents (ft³)	Volume of Container Contents (gallons)	pH Screening Reading	Comments
	V05	Steel	1	675	5049	Solid	Vat	563	4211	-	solid white alkali waste - 1' from top
ļ	T31	Poly	1	-	-	-	Tank	-	-	-	empty - used by ERRS
ļ	-	Poly	2	7.4	55	Liquid	Drum	15	110	-	labelled Naphtenic Oil
ļ	-	Poly	1	2.7	20	Liquid	Drum Contains	2.7	20	-	labelled Ammonium Hydroxide
ļ	=	Poly Poly	1 1	0.1	5	Liquid Liquid	Small Container Small Container	0.1	5	-	labelled Polyacrylimide Emulsion
ļ	-	Poly	1	2.7	20	Liquid	Drum	2.7	20	-	labelled Polyacrylimide Emulsion - empty labelled Ammonia
G8	-	Stainless Steel	1	2.7	20	Liquid	Drum	2.7	20	-	labelled Nitric Acid
•	-	Fiber	1	2.7	20	Solid	Drum	2.7	20	-	labelled Inorganic Phosphate
ļ	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	labelled Anodal MS
ļ	-	Poly	1	0.1	5	Liquid	Small Container	0.1	5	-	no label
ļ	-	Poly	1	7.4	55	Liquid	Drum	7.4	55		no label
ļ	-	Fiber	1	7.4	55	Solid	Drum	7.4	55		no label
	-	Various	60	- 7.4	-	- Italia	various small containers	-	- 20		lab chemicals - up to 5 gallons each
ļ	-	Poly Fiber	1 1	7.4	55 30	Liquid Solid	Drum Drum	3.7	28 30	-	no label labelled Cation Exchange Resin
ļ	-	Poly	3	7.4	55	Liquid	Drum	22	165	-	labelled SC225 Detergent
	-	Poly	2	0.1	5	Solid	Overpack	0.2	103	-	labelled F2986
<b>G9</b>	-	Poly	1	0.1	5	Solid	Overpack	0.1	5	-	labelled Nickel Acetate
ŀ	-	Poly	1	0.1	5	Solid	Overpack	0.1	5		red powder
ļ	-	Poly	1	7.4	55	Liquid	Drum	7.4	55		labelled Oakite Aluminum Cleaner
	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	labelled Rust Stripper Sodium Hydroxide
	T32	Poly	1	-	-	-	Tank	-	-	-	empty - used by ERRS
H11	T33	Poly	1	-	50	Solid	Tank	-	50	-	goldish brown solid material - full
	V06	Steel	1	32	239	Liquid	Vat	8	60	-	labelled Passivate Tank - elevated VOCs - 25% full
ļ	V49	Steel	1	-	-	-	Vat	-	-	-	trash and debris
Outside South Canopy	V50	Steel	1	=	-	-	Vat	-	-	-	trash and debris
	V51	Poly	1	=	=	-	Vat Tank	-	-	-	empty
	T45 -	Poly Poly	1	7.4	55	-	Drum	-	-	-	empty trash and debris
ļ	-	Poly	2	7.4	55	Liquid	Drum	15	110	-	labelled Anodal ES1
ļ	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	labelled Aqua Ammonia
F5	-	Poly	1	4	30	Liquid	Drum	2	15	-	labelled Acetic glacial
ļ	-	Fiber	1	7.4	55	-	Drum	-	-	-	trash and debris
ļ	-	-	1	-	-	-	Cylinder	-	-	-	unknown contents
F6	-	Poly	3	7.4	55	-	Drum	=	=	=	trash and debris
FU	-	Various	10	-	-	-	various small containers	-	-	-	various cleaning products
ļ	-	Poly	4	7.4	55	Solid	Drum	30	220	-	solid white crystalline waste
!	T34	Poly	1	137	1025	Liquid	Tank	98	733	-	liquid 2' from top
F7	T35	Poly	1	137	1025	Liquid	Tank	108	808		liquid 1.5' from top
ļ	T36	Poly	1	402	3007 3007	Liquid	Tank	351	2625	-	labelled Spent Acid - liquid 1' from top
	T37 V07	Steel Steel	1	402 648	4847	Liquid Liquid	Tank Vat	302 540	2259 4039	-	labelled Spent Acid - liquid 2' from top liquid 1' from top
F7 and E7	V08	Steel	1	180	1346	Liquid	Vat	113	845	13	liquid 1.5' from top
	D13	Poly	3	7.4	55	Both	Drum	22	165		no labels - solids with liquids on top
ŀ	V09	Steel	1	234	1750	Liquid	Vat	156	1167		liquid 2' from top
ŀ	T38	Poly	1	269	2012	Liquid	Tank	192	1436		labelled Spent Alkali - liquid 2' from top
E7	V10	Poly	1	675	5049	Both	Vat	506	3785	13.5	liquid 1.5' from top, solid 2' below liquid
L/ /			. —			Liquid	Vat		3276	4	liquid 1' from top
li i	V11	Steel	1	525	3927			438			
ļ	T39	Poly	1	170	1272	Both	Tank	127	950	-	labelled Spent Alkali - liquid 1.5' from top
	T39 T40	Poly Poly	1 1	170 192	1272 1436	Both Both	Tank Tank	127 135	1010	11	labelled Spent Alkali - liquid 1.5' from top
	T39 T40 V12	Poly Poly Steel	1 1 1	170 192 614	1272 1436 4593	Both Both Liquid	Tank Tank Vat	127 135 520	1010 3890	11 12.5	labelled Spent Alkali - liquid 1.5' from top liquid 1' from top
D7 and E7	T39 T40 V12 D11	Poly Poly Steel Poly	1 1 1 47	170 192 614 7.4	1272 1436 4593 55	Both Both Liquid Solid	Tank Tank Vat Drum	127 135 520 221	1010 3890 2585	11 12.5 13.5	labelled Spent Alkali - liquid 1.5' from top liquid 1' from top solid white crystalline waste
D7 and E7	T39 T40 V12 D11 D12	Poly Poly Steel Poly	1 1 1 47	170 192 614 7.4	1272 1436 4593 55	Both Both Liquid Solid	Tank Tank Vat Drum Drum	127 135 520 221	1010 3890 2585	11 12.5 13.5 11	labelled Spent Alkali - liquid 1.5' from top liquid 1' from top solid white crystalline waste solid white crystalline waste
D7 and E7	T39 T40 V12 D11 D12	Poly Poly Steel Poly - Steel	1 1 1 47 -	170 192 614 7.4 - 7.4	1272 1436 4593 55 -	Both Both Liquid Solid	Tank Tank Vat Drum Drum Drum	127 135 520 221	1010 3890 2585 -	11 12.5 13.5 11	labelled Spent Alkali - liquid 1.5' from top liquid 1' from top solid white crystalline waste solid white crystalline waste empty
	T39 T40 V12 D11 D12 - V13	Poly Poly Steel Poly - Steel Steel	1 1 1 47 - 2 1	170 192 614 7.4 - 7.4 96	1272 1436 4593 55 - 55 718	Both Both Liquid Solid - Solid Solid	Tank Tank Vat Drum Drum Drum Vat	127 135 520 221 - - 72	1010 3890 2585 - - - 539	11 12.5 13.5 11 -	labelled Spent Alkali - Ilquid 1.5' from top liquid 1' from top solid white crystalline waste solid white crystalline waste empty labelled Treated Alkali - solids 1' from top
	T39 T40 V12 D11 D12 - V13 V14	Poly Poly Steel Poly - Steel Steel Steel	1 1 1 47 - 2 1	170 192 614 7.4 - 7.4 96 96	1272 1436 4593 55 - - 55 718 718	Both Both Liquid Solid Solid Solid Solid	Tank Tank Vat Drum Drum Vat Vat Vat	127 135 520 221 - - 72	1010 3890 2585 - - - 539 539	11 12.5 13.5 11 - 10.5	labelled Spent Alkali - Ilquid 1.5' from top liquid 1' from top solid white crystalline waste solid white crystalline waste empty labelled Treated Alkali - solids 1' from top labelled Treated Alkali - solids 1' from top
D7	T39 T40 V12 D11 D12 - V13 V14 V15	Poly Poly Steel Poly - Steel Steel Steel Steel Steel	1 1 1 47 - 2 1	170 192 614 7.4 - 7.4 96 96 128	1272 1436 4593 55 - 55 718 718 957	Both Both Liquid Solid - Solid Solid	Tank Tank Vat Drum Drum Vat Vat Vat Vat	127 135 520 221 - - 72	1010 3890 2585 - - - 539	11 12.5 13.5 11 - 10.5	labelled Spent Alkali - liquid 1.5' from top liquid 1' from top solid white crystalline waste solid white crystalline waste empty labelled Treated Alkali - solids 1' from top labelled Treated Alkali - solids 1' from top
	T39 T40 V12 D11 D12 - V13 V14	Poly Poly Steel Poly - Steel Steel Steel	1 1 1 47 - 2 1 1	170 192 614 7.4 - 7.4 96 96	1272 1436 4593 55 - - 55 718 718	Both Both Liquid Solid Solid Solid Solid Solid Solid	Tank Tank Vat Drum Drum Vat Vat Vat	127 135 520 221 - - 72 72 96	1010 3890 2585 - - 539 539 718	11 12.5 13.5 11 - 10.5 10 5.5	labelled Spent Alkali - Ilquid 1.5' from top liquid 1' from top solid white crystalline waste solid white crystalline waste empty labelled Treated Alkali - solids 1' from top labelled Treated Alkali - solids 1' from top
D7	T39 T40 V12 D11 D12 - V13 V14 V15 T41	Poly Poly Steel Poly - Steel Steel Steel Steel Steel Poly	1 1 1 47 - 2 1 1 1	170 192 614 7.4 - 7.4 96 96 128	1272 1436 4593 55 - 55 718 718 957 97	Both Both Liquid Solid Solid Solid Solid Solid Solid	Tank Tank Vat Drum Drum Vat Vat Vat Vat Tank	127 135 520 221 - - 72 72 72 96	1010 3890 2585 - - 539 539 718	11 12.5 13.5 11 - 10.5 10 5.5	labelled Spent Alkali - liquid 1.5' from top liquid 1' from top solid white crystalline waste solid white crystalline waste empty labelled Treated Alkali - solids 1' from top labelled Treated Alkali - solids 1' from top labelled Treated Alkali - solids 1' from top empty
D7	T39 T40 V12 D11 D12 - V13 V14 V15 T41	Poly Poly Steel Poly - Steel Steel Steel Steel Steel Poly Poly	1 1 1 47 - 2 1 1 1 1 1	170 192 614 7.4 - 7.4 96 96 128 13 7.4	1272 1436 4593 55 - 55 718 718 957 97	Both Both Liquid Solid Solid Solid Solid Solid Solid Liquid	Tank Tank Vat Drum Drum Vat Vat Vat Vat Vat Vat Vat Tank Drum	127 135 520 221 - - 72 72 72 96 - 7.4	1010 3890 2585 - - 539 539 718 - - 555	11 12.5 13.5 11 - 10.5 10 5.5	labelled Spent Alkali - liquid 1.5' from top liquid 1' from top solid white crystalline waste solid white crystalline waste empty labelled Treated Alkali - solids 1' from top empty no label
D7	T39 T40 V12 D11 D12 - V13 V14 V15 T41	Poly Poly Steel Poly - Steel Steel Steel Steel Steel Poly Poly Poly	1 1 1 47 - 2 1 1 1 1 1 1	170 192 614 7.4 - 7.4 96 96 128 13 7.4 4	1272 1436 4593 55 - 55 718 718 957 97 55 30	Both Both Liquid Solid Solid Solid Solid Solid Liquid	Tank Tank Vat Drum Drum Vat Vat Vat Vat Vat Vat Drum Vat Vat Vat Drum Drum Vat Vat Drum Drum	127 135 520 221 - - 72 72 96 - 7.4	1010 3890 2585 - - 539 539 718 - 55	11 12.5 13.5 11 - 10.5 10 5.5 5.5	labelled Spent Alkali - liquid 1.5' from top liquid 1' from top solid white crystalline waste solid white crystalline waste empty labelled Treated Alkali - solids 1' from top labelled Acetic Acid Glacial
D7	T39 T40 V12 D11 D12 - V13 V14 V15 T41 - V16	Poly Poly Steel Poly - Steel Steel Steel Steel Steel Poly Poly Poly Steel	1 1 1 47 - 2 1 1 1 1 1 1 1	170 192 614 7.4 - 7.4 96 96 128 13 7.4 4	1272 1436 4593 55 - 55 718 718 957 97 55 30	Both Both Liquid Solid Solid Solid Solid Solid Solid Liquid Liquid Solid Solid Liquid Liquid Liquid	Tank Tank Vat Drum Drum Drum Vat Vat Vat Vat Vat Tank Drum Drum	127 135 520 221 - - 72 72 96 - 7.4 4 120	1010 3890 2585 - - 539 539 718 - 55 30 898 539 55	11 12.5 13.5 11 - 10.5 10 5.5 5.5	labelled Spent Alkali - liquid 1.5' from top liquid 1' from top solid white crystalline waste solid white crystalline waste empty labelled Treated Alkali - solids 1' from top empty no label labelled Acetic Acid Glacial white crystaline solid waste 1' from top
D7 F8	T39 T40 V12 D11 D12 - V13 V14 V15 T41 - V16 V17 - D14	Poly Poly Steel Poly Steel Steel Steel Steel Poly Poly Poly Steel Steel	1 1 1 47 - 2 1 1 1 1 1 1 1	170 192 614 7.4 - 7.4 96 96 128 13 7.4 4 160	1272 1436 4593 55 - - 55 718 718 957 97 55 30 1197	Both Both Liquid Solid	Tank Tank Vat Drum Drum Vat Vat Vat Vat Vat Vat Tank Drum Vat Vat Tank Drum Drum Vat Vat Drum Drum Drum Vat Vat Vat	127 135 520 221 72 72 72 96 - 7.4 4 120 72	1010 3890 2585 - - 539 539 718 - 55 30 898 539	11 12.5 13.5 11 - 10.5 10 5.5 5.5 6 - 13	labelled Spent Alkali - liquid 1.5' from top liquid 1' from top solid white crystalline waste solid white crystalline waste empty labelled Treated Alkali - solids 1' from top labelled Acetic Acid Glacial white crystaline solid waste 1' from top white crystaline solid waste 1' from top labelled Anodal solid white crystalline waste
D7 F8	T39 T40 V12 D11 D12 - V13 V14 V15 T41 - V16 V17	Poly Poly Steel Poly - Steel Steel Steel Steel Steel Steel Steel Poly Poly Poly Poly Poly Steel Steel Poly	1 1 1 47 - 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	170 192 614 7.4 - 7.4 96 96 128 13 7.4 4 160 96 7.4	1272 1436 4593 55 - 55 718 718 957 97 55 30 1197 718 55 55	Both Both Liquid Solid Solid Solid Solid Solid Solid Solid Solid Solid Liquid Liquid Liquid Solid Solid Solid Solid Solid Solid Solid	Tank Tank Vat Drum Drum Vat Vat Vat Vat Vat Vat Vat Tank Drum Vat Vat Vat Drum Drum Drum Drum Drum	127 135 520 221 72 72 96 - 7.4 4 120 72 7.4 88.8	1010 3890 2585 - - 539 539 718 - 55 30 898 539 55 660	11 12.5 13.5 11 - 10.5 10 5.5 5.5 6 - 13	labelled Spent Alkali - liquid 1.5' from top liquid 1' from top solid white crystalline waste solid white crystalline waste empty labelled Treated Alkali - solids 1' from top labelled Acetic Acid Glacial white crystaline solid waste 1' from top labelled Anodal solid white crystalline waste solid white crystalline waste
D7 F8 E8	T39 T40 V12 D11 D12 - V13 V14 V15 T41 - V16 V17 - D14	Poly Poly Steel Poly - Steel Steel Steel Steel Steel Steel Poly Poly Poly Poly Poly Poly Fiber	1 1 1 1 47 - 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	170 192 614 7.4 - 7.4 96 96 128 13 7.4 4 160 96 7.4 7.4	1272 1436 4593 55 - 55 718 718 957 97 55 30 1197 718 55 55 55	Both Both Liquid Solid Solid Solid Solid Solid Solid Liquid Solid Solid Liquid Solid Solid Solid	Tank Tank Vat Drum Drum Vat Vat Vat Vat Vat Vat Vat Tank Drum Vat Vat Vat Drum Drum Drum Drum Drum Drum Drum Drum	127 135 520 221 72 72 96 - 7,4 4 120 72 7,4 88.8	1010 3890 2585 - - 539 539 718 - 55 30 898 539 55 660	11 12.5 13.5 11 - 10.5 10 5.5 5.5 6 - 13	labelled Spent Alkali - liquid 1.5' from top liquid 1' from top solid white crystalline waste solid white crystalline waste empty labelled Treated Alkali - solids 1' from top labelled Acetic Acid Glacial white crystalline solid waste 1' from top white crystaline solid waste 1' from top labelled Anodal solid white crystalline waste solid white crystalline waste
D7 F8	T39 T40 V12 D11 D12 - V13 V14 V15 T41 - V16 V17 - D14 D15	Poly Poly Steel Poly - Steel Steel Steel Steel Steel Steel Steel Poly Poly Poly Poly Poly Steel Steel Poly	1 1 1 47 - 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	170 192 614 7.4 - 7.4 96 96 128 13 7.4 4 160 96 7.4	1272 1436 4593 55 - 55 718 718 957 97 55 30 1197 718 55 55	Both Both Liquid Solid Solid Solid Solid Solid Solid Solid Solid Solid Liquid Liquid Liquid Solid Solid Solid Solid Solid Solid Solid	Tank Tank Vat Drum Drum Vat Vat Vat Vat Vat Vat Vat Tank Drum Vat Vat Vat Drum Drum Drum Drum Drum	127 135 520 221 72 72 96 - 7.4 4 120 72 7.4 88.8	1010 3890 2585 - - 539 539 718 - 55 30 898 539 55 660	11 12.5 13.5 11 - 10.5 10 5.5 5.5 6 - 13 12	labelled Spent Alkali - liquid 1.5' from top liquid 1' from top solid white crystalline waste solid white crystalline waste empty labelled Treated Alkali - solids 1' from top labelled Acetic Acid Glacial white crystaline solid waste 1' from top labelled Anodal solid white crystalline waste solid white crystalline waste

#### Table 2- October 25, 2013

# Container Inventory and Field Screening Results Bedford Anodizing Tanks and Vats Site Macedonia, Summit County, Ohio

Building Grid Area	Drum, Tank or Vat Designation Number	Container Material	Number of Containers	Total Volume of Container (ft <sup>3</sup> )	Total Volume of Container (gallons)	Solid or Liquid or Both	Container Description	Volume of Container Contents (ft³)	Volume of Container Contents (gallons)	pH Screening Reading	Comments
									,		
F11	-	Steel	1	7.4	55	-	Drum	-	-	-	trash and debris
	-	Various	3	-	-	-	Small Container	-	-	-	various
	D03	Poly	72	7.4	55	Solid	Drum	532	3960	13	solid white crystalline waste
	D04	Poly	-	-	-	-	Drum	-	-	12.5	solid white crystalline waste
,	D05	Poly	-	=	-	-	Drum	-	-	11	solid white crystalline waste
640 D40 4 540	D06	Poly	-	-	-	-	Drum	-	-	11	solid white crystalline waste
C10, D10, and E10	D07	Poly	-	=	-	-	Drum	-	-	2.5	solid white crystalline waste
	D08	Poly	-	-	-	-	Drum		-	13	solid white crystalline waste
}	D09	Poly Poly	-	<u>-</u>	-	-	Drum Drum	-	-	10.5 10.5	solid white crystalline waste solid white crystalline waste
-	-	- Poly	1	-	-	-	Cylinder	-	-	- 10.5	refridgerant
	-	Steel	1	7.4	55	-	Drum	-	-	-	trash and debris
•	-	Poly	1	7.4	55	-	Drum	-	-	-	trash and debris
C8-9, D8-9, and E8-9	-	Steel	6	0.4	3	Liquid	Small Container	2.4	18	-	lubricant
(Metal Fab Shop)	_	Poly	1	0.6	5	Solid	Small Container	0.6	5	-	buffing compound
, ,,,	-	Steel	2	7.4	55	Solid	Drum	15	110	-	used buffing compound
	-	Steel	8	0.6	5	-	Small Container	-	-	-	empty
A8, B8, and C8	-	Poly	1	7.4	55	Solid	Drum	7.4	55	-	used buffing compound
-, -,	-	Poly	1	7.4	55	Solid	Drum	7.4	55	-	used buffing compound
ļ	-	Poly	2	7.4	55	-	Drum	-	-	-	trash and debris
ļ	-	Fiber	2	7.4	55	-	Drum	-	-	-	trash and debris
ļ	-	Poly	6	7.4	55	Solid	Drum	44	330	-	solid white crystalline waste
	V18	Steel	1	96	718	Solid	Vat	72	539	5.5	white crystaline solid waste 1' from top
A6-7, B6-7, and C6-7	-	-	3	=	-	-	Cylinder	-	-	-	labelled Argon
A0-7, D0-7, allu C0-7	-	-	1	=	-	-	Cylinder	-	-	-	labelled Oxygen
	-	Steel	50	-	-	Liquid	Small Container	-	-	-	various aerosols and paints
	-	-	1	-	-	-	Cylinder	-	-	-	labelled Helium
	-	-	1	1.3	10	Liquid	Small Container	1.3	10	-	Parts Washing Solvent
	-	Various	20	-	-	-	Small Container	<u> </u>	-	-	various cleaners
	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	labelled Anodal
C4	-	Poly	2	7.4	55	Liquid	Drum	15	110	-	labelled Aluminum Etch
,	V19	Steel	1	840	6283	Liquid	Vat	-	-	-	ERRS was pumping liquid into vat / lalkalyn non-etch cleaner - now probably
	V20	Steel	1	840	6283	Both	Vat	720	5386	13.5	liquid 1' from top - solid 2' below liquid / catch all for rinse - sodium and aluminum hydroxide
	V21	Steel	1	630	4712	Both	Vat	450	3366	14	liquid 3' from top - solid 2' below liquid / sodium and aluminum hydroxide
	V22	Steel	1	630	4712	Solid	Vat	630	4712	11	white crystaline alkali solid waste / aluminum hydroxide
	V23	Steel	1	630	4712	Solid	Vat	630	4712	11	white crystaline alkali solid waste / aluminum hydroxide
	V24	Steel	1	630	4712	Both	Vat	540	4039	14	liquid 1' from top - solid 1' below liquid / alkali rinse and aluminum hydroxide
	V25	Steel	1	630	4712	Liquid	Vat	540	4039	13.5	liquid 1' from top / alkali rinse
	V26	Steel	1	630	4712	Liquid	Vat	540	4039	13	liquid 1' from top / alkali rinse
	V27	Steel	1	525	3927	Liquid	Vat	450	3366	12.5	liquid 1' from top / former bright dip tank / alkali rinse / sludge could contain nitric acid
	V28	Steel	1	735	5498	Liquid	Vat	630	4712	12	liquid 1' from top / alkali rinse
ļ	V29	Steel	1	735	5498	Liquid	Vat	630	4712	11	liquid 1' from top / alkali rinse
,	V30	Steel	1	840	6283	Liquid	Vat	480	3590	1.5	Vat was leaking onto floor liquid 3' from top / 16% sulfuric acid
G3-8 and H3-8	V31	Steel	1	840	6283	Liquid	Vat	480	3590	1.5	liquid 3' from top / sulfuric acid
,	V32	Steel	1	840	6283	Liquid	Vat	720	5386	1.5	liquid 1' from top / sulfuric acid
	V33	Steel	1	840	6283	Liquid	Vat	480	3590	1.5	liquid 3' from top / sulfuric acid
}	V34	Steel	1	100	748	Liquid	Vat	80	598	1.5	liquid 1 from top / smaller vat inside containing blue dye
}	V35	Steel	1 1	840 735	6283	Liquid	Vat	660	4937	1.5	liquid 1.5' from top / acid base with tin (stanosulfate)
}	V36 V37	Steel Steel	1 1	735	5498 5498	Liquid -	Vat Vat	630	4712	1.5	liquid 1' from top / sulfuric acid and water
ŀ	V37 V38	Steel	1	438	3276	Liquid	Vat Vat	375	2805	4	nearly empty / sulfuric acid and water liquid 1' from top / brown dye
}	V38 V39	Steel	1	630	4712	Liquia -	Vat Vat	- 3/5	2805	- 4	nearly empty / sulfuric acid and water
}	V39 V40	Steel	1	735	5498	- Liquid	Vat Vat	420	3142	3.5	liquid 3' from top / sulfuric acid and water
}	V41	Steel	1	735	5498	Liquid -	Vat	- 420	- 3142	-	nearly empty / sulfuric acid and water
}	V41 V42	Steel	1	735	5498	- Liquid	Vat Vat	525	3927	5.5	liquid 2' from top / magnesium based seal (ES-1 Seal)
ŀ	V42 V43	Steel	1	630	4712	Liquid	Vat	540	4039	3.5	liquid 1' from top / magnesium based seal (ES-1 Seal)
}	V44	Steel	1	630	4712	Liquid	Vat	540	4039	10	liquid 1 from top / ferric ammonium oxilate (gold dye)
}	V45	Steel	1	840	6283	Liquid	Vat Vat	720	5386	2	liquid 1' from top / terric ammonium oxitate (gold dye)
}	V45	Steel	1	735	5498	Liquid	Vat	630	4712	2	liquid 1' from top / black dye mixed with sulfuric acid
	V46 V47	Steel	1	735	5498	Liquid	Vat	630	4712	1.5	liquid 1' from top / black dye mixed with sunuric acid
ţ	V4/	Steel	1	840	6283	Liquid -	Vat	- 030	4/12	-	nearly empty / acid and water
	1//12	JICCI	1 + 1	040	0203	· -	val				nearly empty / acid and water
	V48		1				Tank				air stringer tower section - empty
	T42	Fiberglass	1	-	-	-	Tank Tank		-	-	air stripper tower section - empty
A9-11 and B9-11			1 1 67	- - 0.6	- - 5	- - Liquid	Tank Tank Small Container	- - -	- - -	- - -	air stripper tower section - empty air stripper tower section - empty various levels of contents - heavy duty lubricant

### Table 2- October 25, 2013 Container Inventory and Field Screening Results

### Bedford Anodizing Tanks and Vats Site Macedonia, Summit County, Ohio

Building Grid Area	Drum, Tank or Vat Designation Number	Container Material	Number of Containers	Total Volume of Container (ft <sup>3</sup> )	Total Volume of Container (gallons)	Solid or Liquid or Both	Container Description	Volume of Container Contents (ft³)	Volume of Container Contents (gallons)	pH Screening Reading	Comments
South of Building	T44	Fiberglass	1	1571	11751	-	Tank	-	-	-	contents unknown
	-	Steel	1	616	4607	Solid	Rolloff	616	4607	5	white crystaline alkali solid waste / Rolloff 2153
	-	Poly	2	7.4	55	Liquid	Drum	-	-	-	appears to be rainwater collected
	T46	Poly	1	28	209	Liquid	Tank	28	209	6.5	labelled Caustic Soda
	T47	Poly	1	28	209	-	Tank	-	-	-	trash and debris
	T48	Poly	1	28	209	-	Tank	-	-	-	trash and debris
	T49	Poly	1	28	209	-	Tank	-	-	-	trash and debris
	T50	Poly	1	15	112	-	Tank	-	-	-	empty
	T51	Poly	1	-	150	-	Tank	-	-	-	empty
	T52	Poly	1	63	471	-	Tank	-	-	-	empty
	T53	Poly	1	154	1152	-	Tank	-	-	-	empty
	T54	Poly	1	154	1152	-	Tank	-	-	-	empty
	T55	Poly	1	38	284	-	Tank	-	-	-	empty
	T56	Poly	1	28	209	solid	Tank	-	-	13	3 inches of solid crystaline material
	V52	Steel	1	240	1795	Solid	Vat	192	1436	5	solid white alkali waste 1' from top
	V53	Steel	1	160	1197	-	Vat	-	-	-	trash and debris
	V54	Steel	1	160	1197	Solid	Vat	120	898	5	solid white alkali waste 1' from top
	V55	Steel	1	128	957	Solid	Vat	96	718	5	solid white alkali waste 1' from top
	V56	Steel	1	385	2880	Solid	Vat	330	2468	5	large hopper - solid white alkali waste 1' from top
	V57	Steel	1	128	957	Solid	Vat	96	718	6	solid white alkali waste 1' from top
	V58	Steel	1	160	1197	-	Vat	-	-	-	trash and debris
	V59	Steel	1	120	898	-	Vat	-	-	-	empty
	V60	Steel	1	264	1975	Solid	Vat	216	1616	5	solid white alkali waste 1' from top
	V61	Steel	1	154	1152	Solid	Vat	116	868	5	solid white alkali waste 1' from top
	V62	Steel	1	160	1197	Solid	Vat	120	898	5	solid white alkali waste 1' from top
pment Storage Pad	V63	Steel	1	160	1197	Solid	Vat	120	898	5	solid white alkali waste 1' from top
	V64	Steel	1	160	1197	Solid	Vat	120	898	5	solid white alkali waste 1' from top
	V65	Steel	1	100	748	-	Vat	-	-	-	trash and debris
	V66	Steel	1	330	2468	Solid	Vat	281	2102	5	solid white alkali waste 1' from top
	V67	Steel	1	120	898	-	Vat	-	-	-	empty
	V68	Steel	1	80	598	Solid	Vat	60	449	5	solid white alkali waste 1' from top
	V69	Steel	1	135	1010	Solid	Vat	101	755	7.5	solid white alkali waste 1' from top
	V70	Steel	1	210	1571	-	Vat	-	-	-	empty
	V71	Steel	1	12	90	Liquid	Vat	6	45	5	liquid 1.5' from top
	V72	Steel	1	-	-	-	Vat	-	-	-	empty
	V73	Steel	1	-	-	-	Vat	-	-	-	empty
	V74	Steel	1	-	-	-	Vat	-	-	-	empty
	V75	Steel	1	-	-	-	Vat	-	-	-	empty
	V76	Steel	1	-	-	-	Vat	-	-	-	empty
ľ	V77	Steel	1	28	209	-	Vat	-	-	-	trash and debris
ľ	V78	Steel	1	-	-	-	Vat	-	-	-	trash and debris
ľ	V79	Steel	1	-	-	-	Vat	-	-	-	trash and debris
ľ	V80	Steel	1	-	-	-	Vat	-	-	-	empty
ļ	V81	Steel	1	-	-	-	Vat	-	-	-	trash and debris
ľ	V82	Steel	1	-	-	-	Vat	-	-	-	trash and debris
ļ	V83	Steel	1	-	-	-	Vat	-	-	-	trash and debris
ŀ	V84	Steel	1	-	-	-	Vat	-	-	-	trash and debris
ŀ	V85	Poly	1	128	957	Liquid	Vat	16	120	5	approx. 0.5' of liquid
ŀ	V86	Steel	1	-	-	-	Vat	-	-	-	J-shaped - empty
	V87	Steel	1	-	-	_	Vat		_	_	J-shaped - empty

Table 3- December 13, 2013
Container Volumteric Caclculations
Bedford Anodizing Site Assessment
Macedonia, Summit County, Ohio

	Drum, Tank or Vat Designation	Container	Number of	Total Volume of Container	Total Volume of Container	Solid or Liquid or		Volume of Container	Volume of Container Contents	pH Screening		Volumetric change since 10/25/13
Building Grid Area	Number	Material	Containers	(ft³)	(gallons)	Both	Container Description	Contents (ft³)	(gallons)	Reading		(gallons)
	-	various	1	-	-	-	Crate of various small containers	-	-	-	< pint size, some have labels	
A1-2 and B1-2, second	-	Poly	1	7.4	55	-	Drum	-	-	-	empty	
floor	-	Glass	1	0.1	1	Liquid	Sulfuric Acid	0.1	1	-	closed	
	-	Glass	1	0.1	1	Liquid	Phosphoric Acid	0.1	1	-	closed	
A1, B1, and C1,	-	-	60-80	-	-	-	light bulbs - flourescent and incandescent	-	-	-		
Maintenance Area	-	various	10	-	-	-	various small containers	-	-	-	oils, lubricants, paint thinner	
	-	Poly	1	0.7	5	Liquid	Open Oil Pan	0.1	1	-	approximately 1 gallon of used oil	
	T01	Steel	1	311	2326	Liquid	Tank	292.36	2187	-	8"from top, frozen white sludge	
	T02	Steel	1	269	2012	Both	Tank	218.2	1632	8	16" from top, frozen liquid over white sludge	
	T03	Steel	1	280	2094	Liquid	Tank	236.25	1767	-	15" from top, frozen orange liquid	
	T04	Steel	1	96	718	Liquid	Tank	55.36	414	6	30.5" from top, frozen clear liquid	
	T05	Poly	1	98	733	Liquid	Tank	45.75	342	9.5	32" from top, frozen white sludge	
	T06	Steel	1	308	2304	Liquid	Tank	221.28	1655	6	27" from top, brown frozen liquid	
	T07	Steel	1	308 269	2304	Liquid	Tank	269 205	2012	7	12" from top, brown frozen liquid	
	T08	Steel	1		2012	Liquid	Tank		1533	9	20" from top, frozen clear liquid	
	T09	Steel	1	88	658	Liquid	Tank	51.3 53.4	384 399	5	35" from top, frozen clear liquid	
D1 F1 and D2 F2	T10	Steel	1	88	658	Liquid	Tank			4	33" from top, frozen clear liquid	
D1, E1 and D2, E2,	T11	Steel	1	34	254	Solid	Tank	24	180	9	white crystaline alkali waste 1' down	
Wastewater Treatment		Steel	1	84	628	Solid	Tank	84	628	11.5	white crystaline alkali waste to top	
Area	T13	Poly	1	198	1481	Solid	Tank	113	845 250	-	white crystaline alkali waste 3' down	
	T14 T15	Steel	1	- 20	250 150	Liquid Liquid	Tank Tank	17	127	8	20" from top, frozen clear liquid liquid 0.5 ' down	
	T16	Poly Poly	1	20	2500	Both	Tank		-	6	30" from top, 8" clear liquid over white sludge	
	T17	Steel	1	170	1272	Liquid	Tank	127.2	951	3.5	18" from top, frozen clear liquid	
	T18	Poly	1	-		·	Tank		- 951		empty - used by ERRS	
	T19	Poly	1	-	220	- Both	Tank	-	55	14	labelled sulfuric acid0.25 % full - liquid over solids	
	T20	Poly	1	_	220	-	Tank	-	-	-	empty - used by ERRS	
	T21	Poly	1	2280	17054	-	Tank		-		unknown contents and amount	
	H01	Steel	1	20	150	Solid	Hopper	20	150	5.5	white crystaline waste to top	
	H02	Steel	1	20	150	Solid	Hopper	20	150	6	white crystaline waste to top white crystaline waste to top	
F2	-	Poly	1	7.4	55	3011u	Drum	20	130	0	labelled Sodium Hydroxide Solution - empty	
ΓZ	-	Poly	2	7.4	55	-	Drum	<u> </u>	-	_	labelled Total Etch 2050 - empty	
	D02	Poly	3	7.4	55	Solid	Drum	22	165	11	no label - white crystaline waste	
	D01	Poly	6	7.4	55	Liquid	Drum	44	330	10	no label - filled with unknown liquid	
G3	-		-	-	-	-	Spill Area	-	-	14	Crystallized material on floor	
	H03	Steel	1	20	150	Solid	Hopper	20	150	-	white crystaline waste to top	
	-	Poly	1	7.4	55	Liquid	Drum	3.7	28	_	Corrosive label - half full of liquid	
	_	Poly	1	0.7	5	Liquid	Small Container	0.5	4	_	no label - 75% full	
G4	T22	Poly	1	44	330	Liquid	Tank	44	330	_	labelled sulfuric acid - 2 inches total liquid	
	V01	Steel	1	88	658	-	Vat	-	-	<u> </u>	Filled with Trash and Debris	
F4	T23	Poly	1	-	-	-	Tank	_	-	_	sulfuric acid tote - empty	
	T24	Poly	1	402	3007	Liquid	Tank	50.27	376	1	Blue clear liquid 7' from top of hole	-1501
G5	-	Poly	1	7.4	55	-	Drum	-	-	-	labelled Ammonia Solutions	1301
- <b>-</b>	-	Fiber	2	0.1	5	-	Small Container	_	-	_	empty	
	-	Poly	1	7.4	55	-	Drum	_	-	_	Filled with Trash and Debris	
	-	Poly	1	7.4	55	Solid	Drum	_	-	11	White Crystaline Solid Waste Spilled on floor	
	_	Poly	1	7.4	55	Both	Drum	5.5	41	-	solid with 2 inhes of liquid 75% full	
G7 and H7	V03	Steel	1	567	4241	Liquid	Vat	425.25	3181	1	labelled Spent Acid - bluish clear liquid 18" from top	-353
	V04	Steel	1	567	4241	Liquid	Vat	474	3546	0.5	labelled Spent Acid - greenish liquid 1' from top	333
	T27	Poly	1	-	3900	Liquid	Tank	-	3900	1	24" from top of manhole, black clear liquid	
	T28	Poly	1	346	2588	Liquid	Tank	185.9	1391	1	labelled Spent Acid - 50" from top of hole	

Table 3- December 13, 2013
Container Volumteric Caclculations
Bedford Anodizing Site Assessment
Macedonia, Summit County, Ohio

Building Grid Area	Drum, Tank or Vat Designation Number	Container Material	Number of Containers	Total Volume of Container (ft³)	Total Volume of Container (gallons)	Solid or Liquid or Both	Container Description	Volume of Container Contents (ft³)	Volume of Container Contents (gallons)	pH Screening Reading	Comments	Volumetric change since 10/25/13 (gallons)
G7 and F7	V02	Steel	1	675	5049	Both	Vat	323.44	2419	14	1" liquid on top of white sludge - liquid 37.5" from top	
<b>G</b> 7	T26	Poly	1	-	1700	Liquid	Tank	-	1700	9	Dark liquid 72" from top of manhole	
F7	T25	Poly	1	-	1700	Liquid	Tank	-	1700	13	Liquid 18" from top of openning, yellow liquid over white sludge	
	-	-	-	-	-	-	Trench Liquid	-	-	4.5		
	T30	Poly	1	88	658	Liquid	Tank	18.3	137	-	Frozen liquid 66.5" from top	
	-	Steel	3	7.4	55	Liquid	Drum	22	165	-	labelled used oil	
	-	Steel	1	7.4	55	Liquid	Drum	7.4	55	-	empty	
Н8	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	labelled Nova Rinse	
	-	Poly	2	7.4	55	Liquid	Drum	15	110	-	labelled Nitric Acid	
	-	Poly	-	7.4	55	Liquid	Drum	15 7.4	110	-	no label - unkown contents	
	-	Poly	1	7.4	55	Liquid Solid	Drum		55	-	labelled Sodium Hydroxide	
	- V05	- Steel	11	675	5049	Solid	50 lb. bags Vat	675	- 5049	-	labelled Sulfamic Acid Crystals solid white Alkali Waste (full)	838
	-	Poly	2	7.4	55	Liquid	Drum	15	110	-	labelled Naphtenic Oil	030
	-	Poly	1	2.7	20	Liquid	Drum	2.7	20	-	labelled Ammonium Hydroxide	
	-	Poly	1	0.1	5	Liquid	Small Container	0.1	5	-	labelled Polyacrylimide Emulsion	
	-	Poly	1	0.1	5	Liquid	Small Container	-	-	-	labelled Polyacrylimide Emulsion - empty	
	-	Poly	1	2.7	20	Liquid	Drum	2.7	20	_	labelled Ammonia	
G8	-	Stainless Steel	1	2.7	20	Liquid	Drum	2.7	20	_	labelled Nitric Acid	
33	-	Fiber	1	2.7	20	Solid	Drum	2.7	20	_	labelled Inorganic Phosphate	
	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	_	labelled Anodal MS	
	_	Poly	1	0.1	5	Liquid	Small Container	0.1	5	_	no label	
	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	_	no label	
	-	Fiber	1	7.4	55	Solid	Drum	7.4	55	_	no label	
	-	various	60	-	-	-	various small containers	-	-	_	lab chemicals up to 5 gallon containers	
	-	Poly	1	7.4	55	Liquid	Drum	3.7	28	-	no label	
	-	Fiber	1	4	30	Solid	Drum	4	30	-	labelled Cation Exchange Resin	
	-	Poly	3	7.4	55	Liquid	Drum	22	165	-	labelled SC225 Detergent	
	-	Poly	2	0.1	5	Solid	Overpack	0.2	10	_	labelled F2986	
<b>G9</b>	-	Poly	1	0.1	5	Solid	Overpack	0.1	5	-	labelled Nickel Acetate	
	-	Poly	1	0.1	5	Solid	Overpack	0.1	5	-	Red Powder	
	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	labelled Oakite Aluminum Cleaner	
	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	labelled Rust Stripper Sodium Hydroxide	
1111	T33	Poly	1	-	50	Solid	Tank	-	50	-	goldish brown - Full	
H11	V06	Steel	1	32	239	Liquid	Vat	8	60	-	labelled Passivate Tank - elevated VOCs, 25% full	
	V49	Steel	1		-	-	Vat	-	-	-	Filled with Trash and Debris	
Outside behind H11	V50	Steel	1	-	-	-	Vat	-	-	-	Filled with Trash and Debris	
	T45	Poly	1	-	-	-	Tank	-	-	-	Filled with Trash and Debris	
	-	Poly	1	7.4	55	-	Drum	=	-	-	Filled with Trash and Debris	
	-	Poly	2	7.4	55	Liquid	Drum	15	110	-	labelled Anodal ES1	
CC	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	labelled Aqua Ammonia	
F5	-	Poly	1	4	30	Liquid	Drum	2	15	-	labelled Acetic glacial	
	-	Fiber	1	7.4	55	-	Drum	-	-	-	Filled with Trash and Debris	
	-	-	1	-	-	-	Cylinder	-	-	-	unknown contents	
F6	-	Poly	3	7.4	55	-	Drum	-	-	-	Filled with Trash and Debris	
ΓŪ	-	various	10	-	-	-	various small containers	-	-	-	cleaning products	
	-	Poly	4	7.4	55	Solid	Drum	30	220	-	solid white crystalline waste	
	T34	Poly	1	137	1025	solid	Tank	85	636	-	White solid - 32" from top	
F7	T35	Poly	1	137	1025	Solid	Tank	78.5	587	-	white solid - 36" from top	
	T36	Poly	1	402	3007	Liquid	Tank	303.6	2271	1	labelled Spent Acid - black clear liquid 23.5" from top	
	T37	Steel	1	402	3007	Liquid	Tank	393.6	2944	2.5	labelled Spent Acid - brown clear liquid 2" from top	689

Table 3- December 13, 2013
Container Volumteric Caclculations
Bedford Anodizing Site Assessment
Macedonia, Summit County, Ohio

							Macedonia, Summit County, Onic	<u></u>				
Building Grid Area	Drum, Tank or Vat Designation Number	Container Material	Number of Containers	Total Volume of Container (ft³)	Total Volume of Container (gallons)	Solid or Liquid or Both	Container Description	Volume of Container Contents (ft³)	Volume of Container Contents (gallons)	pH Screening Reading	Comments	Volumetric change since 10/25/13 (gallons)
F7 and E7	V07	Steel	1	648	4847	Both	Vat	108	808	-	liquid 60" from top, 0.5" yellow liquid over white frozen sludge	
	V08	Steel	1	180	1346	Both	Vat	78.75	589	13	27" from top, (1" yellowish liquid over white sludge)	
	D13	Poly	3	7.4	55	Both	Drum	22	165	11	no labels - solids with liquids on top	
											labelled Spent Alkali - liquid 73" from top (2" yellow liquid over	
	T38	Poly	1	269	2012	Liquid	Tank	35.4	265	13	white sludge)	-1171
	V09	Steel	1	234	1750	Liquid	Vat	224.25	1677	1	Black opaque liquid, 3" from top	1239.5
E7	V10	Poly	1	675	5049	Both	Vat	290.25	2171	13	liquid 41" from top, 2" yellow liquid over white sludge	
	V11	Steel	1	525	3927	Liquid	Vat	124.25	929	1	Black opaque liquid, 55" from top	-1689
		D . I		470	4272	D. H.	<b>T</b> I	50.0	440		Liberth of Constability Provides (1.47) Constability Constability	
	T39	Poly	1	170	1272	Both	Tank	58.8	440	-	labelled Spent Alkali - liquid 47" from top (white frozen sludge)	104
	T40 V12	Poly Steel	1	192 614	1436 4593	Both Liquid	Tank Vat	73.89 28.35	553 212	3 12.5	labelled Spent Alkali - Brownish red liquid 37" from top liquid 74.5" from top, off white frozen sludge	194
	D11	Poly	47	7.4	4593 55	Solid	Vat Drum	28.35	2585	13.5	solid white crystalline waste	
D7 and E7	D12	Poly	47	7.4	-	- Solid	Drum	-		11	solid white crystalline waste	
	-	Steel	2	7.4	55	-	Drum		_	-	empty	
D7	V13	Steel	1	96	718	Solid	Vat	96	718	10.5	labelled Treated Alkali - full of white solid	
	V13	Steel	1	96	718	Solid	Vat	96	718	10.5	labelled Treated Alkali - full of white solid	
	V15	Steel	1	128	957	Solid	Vat	128	957	5.5	labelled Treated Alkali - full of white solid	
F8	T41	Poly	1	13	97	-	Tank	-	-		empty	
10	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	_	no label	
	_	Poly	1	4	30	Liquid	Drum	4	30	_	labelled Acetic Acid glacial	
	V16	Steel	1	160	1197	Solid	Vat	120	898	5.5	white crystaline solid waste 1' from top	
	V17	Steel	1	96	718	Solid	Vat	73.92	553	6	white crystaline solid waste 22" from top	
E8	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	labelled Anodal	
	D14	Poly	12	7.4	55	Solid	Drum	88.8	660	13	solid white crystalline waste	
	D15	-	-	-	-	-	Drum	-	-	12	solid white crystalline waste	
	-	Fiber	1	0.1	5	Solid	Drum	0.1	5	-	yellow powder	
F9	-	Poly	1	7.4	55	-	Drum	-	-	-	empty	
	-	Poly	9	0.6	5	Liquid	Small Container	6	45	-	Sulfuric Acid for Color Bath label	
F10	-	various	16	0.6	5	Liquid	Small Container	-	-	-	3 Aluminum Cleaner, 4 Lubricants, 2 Roof Coating	
F11	-	Steel	1	7.4	55	-	Drum	-	=	-	Filled with Trash and Debris	
L11	-	various	3	-	-	-	Small Container	-	-	-		
	D03	Poly	72	7.4	55	Solid	Drum	532	3960	13	solid white crystalline waste	
	D04	Poly	-	-	-	-	Drum	-	-	12.5	solid white crystalline waste	
	D05	Poly	-	-	-	-	Drum	-	-	11	solid white crystalline waste	
	D06	Poly	-	=	-	-	Drum	-	-	11	solid white crystalline waste	
C10, D10, and E10	D07	Poly	-	-	-	-	Drum	-	-	2.5	solid white crystalline waste	
	D08	Poly	-	-	-	-	Drum	-	-	13	solid white crystalline waste	
	D09	Poly	-	-	-	-	Drum	-	-	10.5	solid white crystalline waste	
	D10	Poly	-	-	-	-	Drum	-	-	10.5	solid white crystalline waste	
	-	-	1	-	-	-	Cylinder	-	-	-	refridgerant	
	-	Steel	1	7.4	55	-	Drum	-	-	-	Filled with Trash and Debris	
00 D0 F0 100 T	-	Poly	1	7.4	55	-	Drum	-	-	-	Filled with Trash and Debris	
C8, D8, E8 and C9, D9,	-	Steel	6	0.4	3	Liquid	Small Container	2.4	18	-	lubricant	
E9 Metal Fab Shop	-	Poly	1	0.6	5	Solid	Small Container	0.6	5	-	buffing compound	
	-	Steel	2	7.4	55	Solid	Drum	15	110	-	used buffing compound	
40.00 100	-	Steel	8	0.6	5	-	Small Container	-	-	-	empty	
A8, B8, and C8	-	Poly	1	7.4	55	Solid	Drum	7.4	55	-	used buffing compound	_

Table 3- December 13, 2013
Container Volumteric Caclculations
Bedford Anodizing Site Assessment
Macedonia, Summit County, Ohio

							wacedonia, Summit County, Onic					
Building Grid Area	Drum, Tank or Vat Designation Number	Container Material	Number of Containers	Total Volume of Container (ft³)	Total Volume of Container (gallons)	Solid or Liquid or Both	Container Description	Volume of Container Contents (ft³)	Volume of Container Contents (gallons)	pH Screening Reading	Comments	Volumetric change since 10/25/13 (gallons)
A6, B6, C6 and A7, B7, C7	-	Poly	1	7.4	55	Solid	Drum	7.4	55	-	used buffing compound	
	-	Poly	2	7.4	55	-	Drum	-	-		Filled with Trash and Debris	
	-	Fiber	2	7.4	55	-	Drum	-	-	-	Filled with Trash and Debris	
	-	Poly	6	7.4	55	Solid	Drum	44	330	-	solid white crystalline waste	
	V18	Steel	1	96	718	Solid	Vat	72	539		white crystaline solid waste 1' from top	
	-	-	3	-	-	-	Cylinder	-	-		Argon Gas	
	-	-	1	-	-	-	Cylinder	-	-		Oxygen Gas	
	-	Steel	50	-	-	Liquid	Small Container	-	-	-	various aerosols and paints	
	-	-	1	-	-	-	Cylinder	-	-	-	Helium Gas	
ŀ	-	-	1	1.3	10	Liquid	Small Container	1.3	10		Parts Washing Solvent	
	-	various	20	-	-	-	Small Container	-	-		various cleaners	
	-	Poly	1	7.4	55	Liquid	Drum	7.4	55	-	labelled Anodal	
C4	-	Poly	2	7.4	55	Liquid	Drum	15	110	-	labelled Aluminum Etch	
	V19	Steel	1	840	6283	Liquid	Vat	145.2	1086	2.5	69.5" from top, 1" frozen yellow liquid over white solid	-2055.5
	V20	Steel	1	840	6283	Both	Vat	429.6	3213		No liquid, 41" from top of solid white material	
	V21	Steel	1	630	4712	Liquid	Vat	434.7	3252	2.5	yellowish frozen liquid, 26" from top	896
	V22	Steel	1	630	4712	Solid	Vat	630	4712		white crystaline alkali solid waste	
	V23	Steel	1	630	4712	Solid	Vat	630	4712		white crystaline alkali solid waste	
	V24	Steel	1	630	4712	Both	Vat	495	3703		18" from top, 2" yellow liquid over white sludge	
	V25	Steel	1	630	4712	Both	Vat	150.3	1124		64" from top, 3" yellow liquid over white sludge	
	V26	Steel	1	630	4712	Both	Vat	315	2356		42" from top, 2" yellow liquid over white sludge	
	V27	Steel	1	525	3927	Both	Vat	427.5	3198		16" from top, 2" blue liquid over white sludge	
	V28	Steel	1	735	5498	Both	Vat	480.9	3597		29" from top, 2" red liquid over white sludge	
	V29	Steel	1	735	5498	Liquid	Vat	332.85	2490		46" from top, brown liquid	
	V30	Steel	1	840	6283	Liquid	Vat	159.6	1194		68" from top, white sludge	
	V31	Steel	1	840	6283	Liquid	Vat	120	898		72" from top, frozen liquid	
	V32	Steel	1	840	6283	Liquid	Vat	399.6	2989		44" from top, frozen liquid	-1723.25
G3 - G8 and H3 - H8	V33	Steel	1	840	6283	Both	Vat	210	1571		63" from top, brown frozen liquid over white sludge	-1570.5
	V34	Steel	1	100	748	Liquid	Vat	63.4	474		38" from top, blue frozen liquid	
	V35	Steel	1	840	6283	Liquid	Vat	320.4	2397		52" from top, brown frozen liquid over white sludge	-2315.25
	V36	Steel	1	735	5498	Both	Vat	218.4	1634		59" from top, brown frozen liquid over white sludge	-2489.5
	V37	Steel	1	735	5498	Liquid	Vat	165.9	1241		65" from top, brown frozen liquid	
	V38	Steel	1	438	3276	Liquid	Vat	51.9	388		74" from top, brown frozen liquid	-2069
	V39	Steel	1	630	4712	Both	Vat	22.5	168		81" from top, frozen white sludge	
	V40	Steel	1	735	5498	Liquid	Vat	78.75	589		75" from top, orange frozen liquid	-2160
	V41	Steel	1	735	5498	Both	Vat	8.4	63		83" from top, white frozen sludge	
	V42	Steel	1	735	5498	Both	Vat	122.85	919		70" from top, frozen liquid over white sludge	-3204.5
	V43	Steel	1	630	4712	Liquid	Vat	472.5	3534		21" from top, brown frozen liquid	020.00
	V44	Steel	1	630	4712	Both	Vat	82.8	619		73" from top, brown frozen sludge	
	V45	Steel	1	840	6283	Both	Vat	180	1346		66" from top, frozen liquid/sludge	-3366.25
	V46	Steel	1	735	5498	Liquid	Vat	135.45	1013		68.5" from top, white frozen sludge	-3110.5
	V47	Steel	1	735	5498	Liquid	Vat	181.65	1359		63.25" from top, white frozen sludge	-2764.5
	V48	Steel	1	840	6283	Liquid	Vat	129.6	969		71" from top, no liquid, residual sludge	-601.75
A9, A10, A11 and B9, B10, B11	T42	Fiberglass	1	-	-	-	Tank	-	-		air stripper - empty	001.70
	T43	Fiberglass	1	_	_	-	Tank	_	-		air stripper - empty	
	-	Steel	67	0.6	5	Liquid	Small Container	_	_		various levels of contents - heavy duty lubricant	
	-	Steel	12	0.1	1	Liquid	Small Container	_	-		various levels of contents - paint	

Table 3- December 13, 2013
Container Volumteric Caclculations
Bedford Anodizing Site Assessment
Macedonia, Summit County, Ohio

			_				waccaoma, Sammic County, Omo					
Building Grid Area	Drum, Tank or Vat Designation Number	Container Material	Number of Containers	Total Volume of Container (ft³)	Total Volume of Container (gallons)	Solid or Liquid or Both	Container Description	Volume of Container Contents (ft³)	Volume of Container Contents (gallons)	pH Screening Reading	Comments	Volumetric change since 10/25/13 (gallons)
Outside B11 South	T44	Fiberglass	1	1571	11751	-	Tank	-	-	-	contents unknown	
	-	Steel	1	616	4607	Solid	Rolloff	616	4607	1	white crystaline alkali solid waste	
	-	Poly	2	7.4	55	Liquid	Drum	-	-		appears to be rainwater collected	
	T46	Poly	1	28	209	Liquid	Tank	28	209	1	Caustic Soda Label	
	T47	Poly	1	28	209	-	Tank	-	-	-	Trash and Debris	
	T48	Poly	1	28	209	-	Tank	_	-	_	Trash and Debris	
	T49	Poly	1	28	209	-	Tank	_	_	_	Trash and Debris	
	T50	Poly	1	15	112	_	Tank	_	_	_	empty	
	T51	Poly	1	-	150	_	Tank	_	_	_	empty	
	T52	Poly	1	63	471	-	Tank	_	_	_	empty	
	T53	Poly	1	154	1152	-	Tank	_	-		empty	
	T54	Poly	1	154	1152	-	Tank	_	-	_	empty	
	T55	Poly	1	38	284	-	Tank	_	-		empty	
	T56	Poly	1	28	209	solid	Tank	_	-		3 inches of solid crystaline material	
	V52	Steel	1	240	1795	Solid	Vat	192	1436		solid white Alkali Waste 1' from top	
	V52	Steel	1	160	1197	-	Vat	-	-		Filled with Trash and Debris	
	V54	Steel	1	160	1197	Solid	Vat	120	898		solid white Alkali Waste 1' from top	
	V55	Steel	1	128	957	Solid	Vat	96	718		solid white Alkali Waste 1' from top	
	V56	Steel	1	385	2880	Solid		330	2468	1	Large Hopper - solid white Alkali Waste 1' from top	
	V56 V57	Steel	1	128	957	Solid	Vat Vat	96	718		solid white Alkali Waste 1 from top	
	V57	Steel	1	160	1197						,	
	V58 V59		1	120	898	-	Vat	-	-	1	Filled with Trash and Debris	
	V60	Steel Steel	1 1	264		- Solid	Vat	- 216	1616	5	empty	
	V61		1		1975	Solid	Vat	216	868		solid white Alkali Waste 1' from top	
	V61 V62	Steel Steel	1	154 160	1152 1197	Solid	Vat	116 120	898		solid white Alkali Waste 1' from top solid white Alkali Waste 1' from top	
Contaile West Consum			1 1			Solid	Vat	120	898		·	
Outside West Canopy	V63	Steel	1	160	1197		Vat				solid white Alkali Waste 1' from top	
	V64	Steel	1 1	160	1197	Solid	Vat	120	898		solid white Alkali Waste 1' from top	
	V65 V66	Steel	1	100	748	-	Vat	-	-		Filled with Trash and Debris	
	V67	Steel	1	330	2468	Solid	Vat	281	2102	1	solid white Alkali Waste 1' from top	
		Steel	1	120	898	-	Vat	-	-		empty	
	V68	Steel	1	80	598	Solid	Vat	60	449		solid white Alkali Waste 1' from top	
	V69	Steel	1	135	1010	Solid	Vat	101	755	1	solid white Alkali Waste 1' from top	
	V70	Steel	1	210	1571	-	Vat	-	-		empty	
	V71	Steel	1	12	90	Liquid	Vat	6	45		liquid 1.5' from top	
	V72	Steel	1	-	-	-	Vat	-	-		empty	
	V73	Steel	1	-	-	-	Vat	-	-	1	empty	
	V74	Steel	1	-	-	-	Vat	-	-		empty	
	V75	Steel	1	-	-	-	Vat	-	-		empty	
	V76	Steel	1	-	- 200	-	Vat	-	-		empty	
	V77	Steel	1	28	209	-	Vat	-	-		Filled with Trash and Debris	
	V78	Steel	1	-	-	-	Vat	-	-		Filled with Trash and Debris	
	V79	Steel	1	-	-	-	Vat	-	-		Filled with Trash and Debris	
	V80	Steel	1	-	-	-	Vat	-	-	-	empty	
	V81	Steel	1	-	-	-	Vat	-	-		Filled with Trash and Debris	
	V82	Steel	1	-	-	-	Vat	-	-		Filled with Trash and Debris	
	V83	Steel	1	-	-	-	Vat	-	-	1	Filled with Trash and Debris	
	V84	Steel	1	- 120	-	-	Vat	-	-		Filled with Trash and Debris	
	V85	Poly	1	128	957	Liquid	Vat	16	120		Only 6" of liquid	
	V86	Steel	1	-	-	-	Vat	-	-	-	J-shaped - empty	
	V87	Steel	1	-	-	-	Vat	-	-	-	J-shaped - empty	

## ATTACHMENT C PHOTOGRAPHIC DOCUMENTATION



**Photograph No.:** 1 **Direction:** Northeast

**Subject:** General overview of building interior

Date: August 21, 2013
Photographer: TJ McFarland



Site: ER-Bedford Anodizing Tanks and Vats

Photograph No.: 2 Date: August 21, 2013

Direction: East Photographer: TJ McFarland

Subject: Wastewater treatment area containing 21 tanks



**Date:** August 21, 2013

Photographer: TJ McFarland

**Site:** ER-Bedford Anodizing Tanks and Vats

**Photograph No.:** 3 **Direction:** North

Subject: Main anodizing line containing 30 vats



Site: ER-Bedford Anodizing Tanks and Vats

Photograph No.: 4 Date: August 21, 2013

Direction: East Photographer: TJ McFarland

Subject: Spilled material on the floor near a tote labeled sulfuric acid, corrosive

I:\WO\START3\2233\46278PL.DOC



Photograph No.: 5
Direction: NA (Down)
Date: August 21, 2013
Photographer: TJ McFarland

Subject: Spilled material on the floor at the south end of the main anodizing line



Site: ER-Bedford Anodizing Tanks and Vats

Photograph No.: 6 Date: August 21, 2013
Direction: NA (Down) Photographer: TJ McFarland

Subject: pH screening of open vat on the main anodizing line



Photograph No.: 7

Direction: East

Date: August 21, 2013

Photographer: TJ McFarland

Subject: Flooded area at the north end of the main anodizing line



Site: ER-Bedford Anodizing Tanks and Vats

Photograph No.: 8

Date: August 21, 2013

Direction: Northwest

Photographer: TJ McFarland

Subject: Covered equipment storage pad containing 11 tanks, 36 vats, and other equipment

I:\WO\START3\2233\46278PL.DOC 2233-2A-BIZR



Photograph No.: 9

Date: August 21, 2013

Photographer: TJ McFarland

Subject: 7,500-gallon concrete vaults used to collect and store waste liquids prior to treatment



Site: ER-Bedford Anodizing Tanks and Vats

Photograph No.: 10 Date: August 21, 2013

Direction: Southeast Photographer: TJ McFarland

**Subject:** Tank T-16 located near the wastewater treatment area



Photograph No.: 11
Direction: NA (Down)
Date: August 21, 2013
Photographer: TJ McFarland

Subject: Northernmost sump installed in the drainage ditch



Site: ER-Bedford Anodizing Tanks and Vats

Photograph No.: 12

Direction: North

Photographer: TJ McFarland
Subject: Vats containing white solid alkali waste on the covered equipment storage pad

I:\WO\START3\2233\46278PL.DOC 2233-2A-BIZR